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INFORMATION SOURCES  
ON HAZARDOUS CONTAMINANTS

by

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Standards Development Section  
Hazardous Contaminants Coordination Branch  
Ontario Ministry of the Environment

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## INTRODUCTION

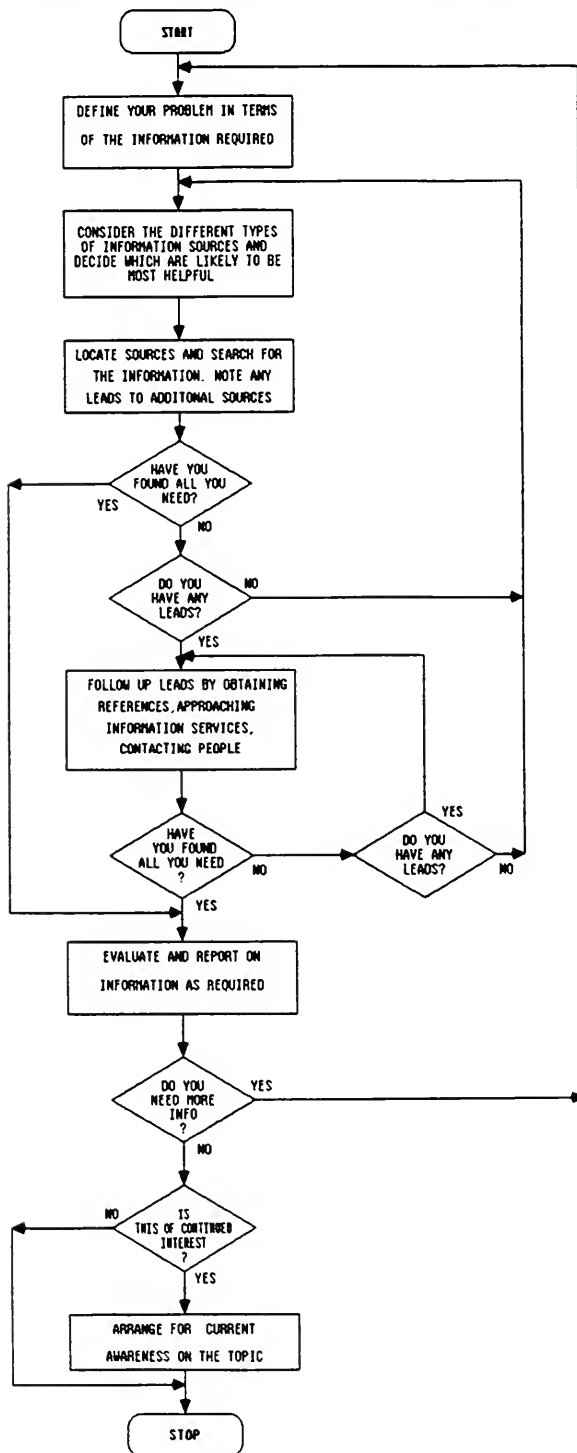
Concern about the toxic effects of chemicals in the workplace and the environment has become widespread. Spurred by right-to-know legislation the demand for concise understandable information on toxic chemicals is growing. Concurrent with this, is the growth of potential sources.

The purpose of this guide is to introduce a person new to the area of environmental toxicology to some of the sources of information on toxic substances. It is intended to supplement more general texts listed in the Bibliographic Section by including sources relating specifically to hazardous substances. Brief comments are included for items listed to outline the type of information available in the source.

The information sources included here are based on, but not limited to, resources available to the Hazardous Contaminants Coordination Branch. The list is not intended to be complete, but a good working collection. With new titles and databases coming on the market regularly some newer but excellent sources may have been omitted. Appendix I lists additional items of interest that were not included.

When needing an answer to a question, the first step is to outline as specifically as possible the information that is needed. Once this is done, the requirements can be separated into different types: e.g., toxicity data, physical properties, environmental fate, numerical data, literature, reviews, etc. Then the most likely place to obtain each of these are identified. If the sources first approached do not yield the necessary information, they may give you leads, or other possible sources can be considered. The process of obtaining information is outlined in Figure 1.

FIGURE 1. STEPS IN THE SEARCH FOR INFORMATION





There is no hard and fast rule on which sources to access first, as this depends on what information one is looking for. Experience in the field will always make judgement easier and the first choice more likely to be correct. Frequently, more than one source will be needed to answer a query.

If a simple fact is required (hard data) then a dictionary or handbook is the first choice, followed by other reference works or books on the topic. If these are not successful, a literature search on a database can then be done. At times however, approaching an individual or organization whose mandate is to answer queries in a certain area is the best option to take. The classic texts that should make the core of any collection on toxic chemicals have been identified in the Title Index.

The material in this guide has been arranged by type of sources and then alphabetically by title or name. A short comment is added under each to help evaluate the sources for a particular use. The divisions into which items have been grouped are described below:

## I. Bibliographies

Texts that give an overview of sources of information on a topic.

## II. Directories

As guides to organizations and persons who may have the information you need, these could have been included in the section "Additional Sources". There are large numbers of directories in existence. Major libraries have large collections of them and are able to answer telephone requests for information.

### III. Legislation, Regulation, Guidelines

Sources of information on the control and acceptable levels of toxic substances.

### IV. General Reference

A mixture of types of reference works from dictionaries and handbooks to general texts. They differ in the amount of information they give from very short entries, to detailed summaries. Only works or series of works that contain information on a variety of chemicals have been considered.

### V. Journals

Two types of sources have been listed here. First a selected list of journals which regularly include material of interest and, second, newsletters that highlight events and findings of significance. These are often the best way of keeping aware of current advances in the field.

#### VIa. Bibliographic Databases

These offer references to works that contain the information meeting specific research criteria required. Abstracts are occasionally included, which may at times give an adequate summary.

#### VIb. Factual Databases

Listed here are commercially available machine readable databases which offer specific type of data on chemicals. A few are available on microcomputer, and many are becoming available on CD-ROM.

## VII. Other Sources

A short list of organizations that can answer queries or which regularly make information available is included. Directories are a way to get leads to additional information sources.

Some entries are followed by a call number. They refer to material available at the Hazardous Contaminants Branch. A Main or Lab preceding the number indicates that the reference is available at the Main or Lab library of the Ministry of the Environment; MOL identifies items available at the Ministry of Labour library.



## I. BIBLIOGRAPHIES

1. Chemical Publications: Their Nature and Use. 5th edition, by M.G. Mellon. McGraw-Hill, New York, 1982.  
(QD 8.5 M44 1982)  
Provides information about primary, secondary and tertiary sources in the field of chemistry. Lists books, journals, technical reports, guides and directories. Discusses libraries and information centers. Includes a list of chemistry-related databases explaining their scopes.
2. Chemical Trade Names: A Selected Bibliography and Research Aid. Canadian Centre for Occupational Health and Safety Hamilton, Ontario, 1982.  
(Z7914. T28 K55 1982)  
Has two parts: Part A reviews selected publications containing information on Commercial and Industrial trade name products; and Part B lists some chemical names and their equivalent trade names.
3. Existing Chemicals: Systematic Investigations, Priority Setting and Chemicals Review. Organization for Economic Cooperation and Development, Paris, 1986.  
(HD 69.P6 E69 1986)  
Chapter V of this book (in microfiche format inserted in the cover page) lists sources of information on chemicals.
4. Information Resources In Toxicology, by P. Wexler, Elsevier, New York, 1982.  
(RA 1216 W32 1982 Ref)  
Lists books, monographs, names of organizations,... and journal articles dealing with various aspects of toxicology. Includes a directory on poison control centres in the United States.
5. The Literature Matrix of Chemistry, by H. Skilnik. J.Wiley, New York, 1982.  
(QD 8.5 S58 1982)  
Provides information about different kinds of information sources in the field of chemistry. Lists of books and journals are included.

## II. DIRECTORIES

6. APCA Directory and Resources Book. The Air Pollution Control Association, Pittsburgh, 1987.  
(TD 882 A57 1987-1988 Ref)  
Names and addresses of active members of APCA are listed alphabetically and geographically. Includes Bylaws of the Air Pollution Control Association.
7. Canadian Directory of Aquatic Toxicologists and Related Specialists, by P.D. Wells and R.S. Belose. Environment Canada, Ottawa, 1985  
(TD 173.5 W35 1985)  
Provides directory information to active workers in basic and applied aquatic toxicology use related disciplines primarily in Canada. accessible by worker name, geographic location, toxicant, test organism and response parameters.
8. Canadian Sources of Environmental Information. Environment Canada, Ottawa, 1986.  
(TD 173.5 C36 1986 Ref)  
Contains the names and research interests of Canadian specialists and organizations active in various fields of the environmental sciences and related disciplines.
9. Canadian Trade Index. Canadian Manufacturers Association, Toronto, 1982.  
(T 12.5 C36)  
Is a directory of Canadian manufacturers. Access provided by Company name, geographic location, type of product and tradename.
10. Chemical Research Faculties: An International Directory. American Chemical Society, Washington, D.C., 1988.  
Provides information about chemical research and researchers at Universities around the world.
11. Citizen's Guide 1982. Environment Canada, Ottawa, 1982.  
(TD 172.5 C36 1982)  
Lists directory information for Environment Canada. Briefly outlines the programs of Environment Canada.
12. Consulting Engineers of Ontario Directory, 7th Revision. Consulting Engineers of Ontario, Toronto, 1987.  
(T 12.5 C65 1987 Ref)  
Revised regularly, provides brief description of consulting engineers practicing in Ontario. access is provided by Company name, geographical location and capabilities offered.

13. Contact Toxics: A Guide to Specialists on Toxic Substances, edited by Richard L. Penperthy. World Environment Center, New York, 1980.  
(RA 1230 P45)  
Provides directory information to specialists in fields related to toxic substances. Access is by individual name, area of expertise, and geographic location. Chronological list of 25 selected American Federal Acts governing toxic or hazardous substances is also included. Information included is almost all American.
14. Data Base Directory. Knowledge Industry Publications, White Plains, N.Y., 1984.  
(Z 668.A1 D38 1984)  
Is one of the most comprehensive lists of databases available including many not commercially available. An index lists the databases by subject areas.
15. Directory of Canadian Environmental Experts. Environment Canada, Departmental Library. Supply and Services Canada, Hull, Quebec, 1984.  
(TD 173.5 C36 1984)  
Alphabetical listing provides mailing addresses of Canadian government, industry and university environmental experts with a brief description of area of expertise. A keyword-in-context index is included for subject area access.
16. Directory of Federal and International Coordinating Groups on Toxic Substances, 3rd edition. United States Environmental Protection Agency, Office of Pesticides and Toxic Substances, NTIS, Springfield, VA., 1983.  
(RA 1229. U55 1983)  
Includes directory information and stated purpose for American and international toxic chemical coordinating groups.
17. Directory of Hazardous Waste Services, edited by W.M. Glen. Corpus Information Services, Toronto, Ontario, 1985.  
(TD 895.5 D37 1985 Ref)  
Lists over 1,000 companies, branches and affiliates spread across Canada that are involved in hazardous waste services including treatment and disposal services, recycling and recovery services, consultants, spill cleanup and laboratories.
18. Directory of Inspection Personnel Employed by Public Health Agencies. Ontario Ministry of Health, [Toronto], 1987.  
Local public health agencies are listed alphabetically. Inspection personnel employed by the Ministry of Health are found at the conclusion of this directory.

19. Directory of State Environmental Agencies, edited by T.R. Henderson and A. Spector. Environmental Law Institute, Washington, D.C., 1984.  
(TD 173.5 H46 1984)  
This Directory is intended to provide basic information about the environmental protection and management agencies of each state and territory in the U.S.
20. Directory of Public Health Agencies. Ontario Ministry of Health, [Toronto].  
(RA 450.05 057 1987)  
Lists public health agencies in Ontario. Names of medical officers of health are included. Provides addresses and telephone numbers. Reissued periodically.
21. Directory of Testing Laboratories, 1988 edition. American Society for Testing and Materials, Philadelphia, 1987.  
Lists names, locations and capabilities of testing laboratories that perform services for a fee.
22. ENDOC Directory: Environmental Information & Documentation Centres of the European Communities, published for the Commission of the European Community by Peter Peregrinus Ltd., Hitchin, England, 1978.  
(MOL TD173.5C734 Ref)  
This Directory contains descriptions of Environmental Information and Documentation Centres in the member states of the European Communities (Belguim, Denmark, Federal Rep. of Germany, France, Ireland, Italy, Netherlands and U.K.)
23. Environmental Telephone Directory. Government Institutes Inc., Rockville, Maryland.  
(TD 172.5 G72 Ref)  
Includes directory information for U.S. Senators and Environmental Aides, U.S. Senate and House Committees dealing with environmental issues, the U.S. Environmental Protection Agency, Federal and Executive Agencies and State Environmental Agencies.
24. The Federal Database Finder: A Directory of Free and Fee-based Databases and Files Available from the Federal Government, 2nd edition, edited by S. Zarozny.  
Information USA, Chevy Chase, Md., 1987.  
Lists and describes over 4200 databases and files available from the U.S. Government.
25. Fraser's Canadian Trade Directory, Maclean Hunter, Toronto, annual.  
(T 12.5 F86)  
Is a directory of Canadian manufactuers of industrial products arranged by product classification. Manufacturer's addresses, trade names, and distributors are included.



26. Health and Safety Directory, edited by M.R. Hastings et al. Kluwer, Brentford, G.B., 1987/80 (MOL HD 7695.H434 1987/88)  
Is a comprehensive reference source on people involved in health and safety at work. Emphasis on Great Britain.
27. Information Resources in Toxicology, by P. Wexler. Elsevier, New York, 1982. (RA 1216 W32 1982)  
Includes a directory on Poison Control Centres in the United States.
28. Information U.S.A., by Mathew Lasko. Viking Press, New York, Annual.  
Is a directory of the American Federal and State Governments. Is geared for use by the public. Claims itself as a directory to free information. Access by areas of interest is available (See also U.S. Government manual).
29. International Pesticide Directory. 6th edition, edited by D.P. McDonald, D.P. McDonald, s.l., 1986. (TD 173.5 I44 1986 Ref)  
Consists of three parts: Part I, an alphabetical list of companies, their addresses and products. Part II, lists pesticides with their active ingredients, their uses, manufacturers and suppliers. Part III, an alphabetically arranged list of active ingredients of pesticides.
30. Pesticide directory: a guide to producers and products, regulators, researchers and associations in the United States, by Lou Thomson, Harvey and W.T. Thomson. Thomson Publications, 1987, Fresno, CA, 1987. (SB 950.9 H341 1987 Ref)  
Provides names, addresses and telephone numbers of sources dealing with pesticides in the U.S. Includes list of magazines and newsletters related to pesticides.
31. Scott's Directory of Ontario Manufacturers. Scott's Directories, Toronto, Annual. (T 12.5 S36 1988 Ref)  
Is a directory of Ontario manufacturers arranged alphabetically. Geographical index and product type in Standard Industrial Classification code arrangement gives additional access.

32. United States Government Manual. U.S. Government Printing Office, Washington, D.C., Annual.

This official directory lists all U.S. government departments and their chief contacts with telephone numbers.

33. World Environmental Directory. Fourth Edition, edited by Patricia A. Moness. Business Publishers Inc., Silver Spring Maryland, 1980.

World directory to companies, Government agencies, professional, scientific and trade, organization, educational institutions and libraries in the environmental community.

### III. SOURCES RELATED TO LEGISLATION, REGULATION, GUIDELINES

34. Canadian Environmental Law. Butterworths, Scarborough, Ontario, 1976. (updated periodically)  
(Main KC 3786 C37 Ref)  
Is a compilation of Canadian Federal and Provincial statutes including commentaries and digests of major environmental cases. The index gives some access by chemical names.
35. Canadian Legislation: Toxic Substances, prepared by Woloschuk Associates for the Canadian Council of Resource and Environment Ministers, Toronto, 1982.  
(KE 3606.H3 W65 1982)  
Is a compilation of Canadian Provincial and Federal legislation relating to toxic substances, controlling manufacture, importation, transportation, storage, handling, use, sale, discharge to air, water or land, spills, occupational health and disposal.
36. Canadian Water Quality Guidelines, prepared by Task Force on Water Quality Guidelines, Canadian Council of Resource and Environment Ministers, 1987.  
(TD226 C212 1987 Ref)  
Provides guidelines for Canadian waters. The guidelines contain recommendations for chemical, physical, radiological and biological parameters necessary to protect and enhance designated uses of water.
37. Chemical Guide to the OSHA Hazard Communication Standard, 3rd edition, edited by K.B. Clansky. Roytech, Burlingame, Ca, 1988.  
Provides key regulatory data set by the Occupational Safety and Health Administration's Hazard Communication Standard on hazardous chemicals manufactured or imported to the United States.
38. Chemical Guide to SARA Title III, edited by K.B. Clansky and J.M. Adkins. Roytech, Burlingame, Ca., 1988.  
The purpose of this reference source is to show which title III regulatory requirements apply to each hazardous substance. Four different chemical groups are subject to title III requirements: Hazardous substances; extremely Hazardous Substances; Toxic chemicals and OSHA Hazardous chemicals.
39. Dangerous Goods Regulations, 29th edition. International Air Transport Association, Montreal, 1987.  
(MOL T55.3.H3.I61 1988 Ref)  
Provides procedures for the shipper and the operator and identifies articles and substances with hazardous properties which can be safely transported by air.

40. Departmental Consolidation of the Food and Drugs Act and the Food and Drugs Regulations. Supply and Services Canada for the Department of National Health & Welfare, Hull, Quebec, 1981 (updated periodically).  
(KE 3696 F5 1953)  
Is a source for maximum allowable contamination in food as prescribed by Health & Welfare Canada.
41. Environmental Law Handbook, 9th edition, by J.G. Arbuckle et al. Government Institutes, Rockville, MD., 1987.  
(KF 3775 E69 1987)  
Is a comprehensive and standard reference source dealing with environmental laws in the U.S.
42. Environmental Regulation Handbook. Environment Information Center, New York, 1972-. (monthly update)  
Compilation of U.S. Legislation reprinted from the Federal Register; The index provides some access by chemicals.
43. Environmental Statutes. Government Institutes Inc., Rockville, Md, 1986.  
(KF 3775 G69 1986 Ref)  
Contains statutes on environmental issues such as "Clean Air Act", "Solid Waste Disposal Act", "Safe Drinking Water Act." etc. Includes a detailed table of contents which eases the use of this source.
44. European Environmental Laws and Regulations, 2nd edition. Government Institute Inc., Rockville, Md., 1983.  
(MOL K3585./89 Ref)  
Covers regulations on environmental issues in the EEC countries (includes Canada). Also includes reviews and comparisons on regulations in EEC countries.
45. Guidelines for Canadian Recreational Water Quality, Health and Welfare Canada. Supply and Services Canada, Ottawa, 1983.  
(TD 370 C36 1983)  
Provides guidelines dealing mainly with health hazards related to recreational water use. The guidelines deal with the risks related to exposure to fecal streptococci, total coliforms, viruses and candida albicans.
46. Guidelines for Drinking Water Quality. World Health Organization, Geneva, 1984 - 85.  
(RA 591.5W67 1984)  
Volume 1 of this 3 volume set provides recommendation for acceptable drinking water level for a variety of parameters. Supporting documentation is found in Volume 2.

47. Guidelines for Surface Water Quality. Environment Canada, Water Quality Branch, Inland Waters Directorate, Ottawa.  
(TD 370 C36 1979)  
Is published in two volumes. Volume 1 includes pamphlets on the toxic effects of inorganic chemicals on human life and on the environment. Volume 2 deals with the toxic effects of organic chemical substances. Maximum concentration of chemical compounds in water at which toxic effects will not appear is recommended.
48. IRPTC Legal File. United Nations Environment Programme, International Register of Potentially Toxic Chemicals. IRPTC, Geneva, 1982.  
(K 3585 I58 1983)  
Presents national and international recommendations and legal mechanisms related to the control of substances in various media. Access is provided by RTECS number, CAS number and common name (Available on line through Health & Welfare Canada).
49. The Law and Practice Concerning Occupational Health in the Member States of the European Community. Prepared by Environmental Resources Limited. Graham and Trotman, Brussels, 1985.  
(MOL HD7694.5.L415 Ref)  
Contains occupational health and safety law and practice in England, Ireland, Denmark, W. Germany, France, Italy, Greece, Belgium, Luxembourg and Netherlands. Includes a comparative survey on laws and practice in European countries.
50. Maximum Concentrations at the Workplace and Biological Tolerance Values for Working Material 1984, by DFG Deutsche Torshugsgemeinschaft, Verlag Chemie, Weinheim 1984  
(RA 1229 D48 1984 Ref)  
Lists maximum concentration values for the workplace for industrial chemicals in Germany. Provides a listing of unequivally proven carcinogenic substances and chemical compounds justifiably suspected by being carcinogenic. Biological tolerance values (BAT) are given for 16 chemicals.
51. Occupational Health Guidelines for Chemical Hazards, edited by Frank W. Mackinson, et al., for the U.S. National Institute for Occupational Safety and Health and the U.S. Occupational Safety and Health Administration U.S. Government Printing Office, Washington, D.C. 1981, (RA 566.22 M33 1981)  
Summarizes Occupational Guidelines for industrial chemicals. Includes OSHA standards applicable in 1980, TLV's by the ACGIH, protective equipment and safe handling. Chemical and physical properties are included.

52. OECD Guidelines For Testing of Chemicals. Organization for Economic Co-operation and Development, Paris, 1981. (TD 193 083)  
Contains the official guidelines for testing of chemicals as adopted by the OECD council.
53. Pesticide Registration Standard, U.S. Environmental Protection Agency. NTIS, Springfield, VA, dates vary.  
The series contains information regarding registration of pesticide products. Each issue deals with pesticides that have a specific active ingredient. Provides data evaluating hazards associated with the chemical.
54. Regulation of Toxic Substances in Canada, by Peter Strahlendorf. Michael Halliday & Associates, Ottawa, 1984 (HC 79.H3 S87 1984)  
Includes Canada federal and Ontario legislation Controls and/or acceptable exposure levels are summarized. Main Acts are briefly described as they relate to toxic substances. Substances are listed by common name; CAS number, molecular formula, molecular weight and synonyms are included.
55. Regulatory Chemicals of Health and Environmental Concern, by William H. Lederer. Van Nostrand Reinhold Company, New York, 1985. (RA 1216 L34 1985 Ref)  
Provides information on the regulations and standards pertaining to various chemicals. Sources of information include the American Conference of Government Industrial Hygienists, National Institute for Occupational Safety and Health, the American Occupational Safety and Health Act of 1970, the National Toxicology Program and the International Agency for Research on Cancer. Environmental and human health effects are summarized for some of the entries.
56. Suspect chemicals sourcebook: A guide to industrial chemicals covered under major Federal Regulatory and advisory programs edited by K.B. Clansky. Royteck, Burlingame, Ca., updates regularly. (TD 173.5 S77)  
Lists more than 3,000 chemicals from 30 different federal statutes regulation and advisory programs. Emphasizes on the U.S. Regulatory and related sources. Also available on-line.

#### IV. GENERAL REFERENCES

57. Acute Toxicities of Organic Chemicals to Fathead Minnows (Pimephales promelas), by the Centre for Lake Superior Environmental Studies, University of Wisconsin- Superior. 1980, 1984, 1986.  
(QP 82.2C4 B86 1986)  
Gives brief synopsis of fathead minnow toxicity tests using organic chemicals. Alphabetical and empirical formula indexes are provided. Fourth volume is now available.
58. Agricultural Chemicals, by W.T. Thomson, Thomson Publications, Fresno, California (updated periodically, various dates).  
(SB 950 95 T46)  
Four volumes, divided into insecticides; herbicides; fungicides and fumigants; growth regulators; repellants and rodenticides. Access is by common name of active ingredient. Only brief information on toxicity, uses, formulations, applications, and precautions is included.
59. Agricultural Chemicals Hazard Response Handbook, 3rd edition. Agro-Research, Havelock North, New Zealand, 1987.  
(SB 950.95 A47 1987 Ref)  
Lists trade names of agricultural chemicals and related compounds in an alphabetical order. Common names(s) and/or abbreviated name(s) of the active ingredient, HAZCHEM and N.F.P.A. are used to identify the immediate response action in the event of a spill or fire.
60. Agrochemicals Handbook, edited by Douglas Hartley. The Royal Society of Chemistry, Nottingham England, 1983.  
Provides concise information on pesticides including identifying information, mode of action, physical properties, toxicity to mammals, fish and bees, degradation and metabolism, uses, antidotes and medical treatments.
61. Annual Report on Carcinogens. United States Public Health Service, National Toxicology Program. Research Triangle Park, North Carolina, Annual.  
(RC 261.A1 N37 1984)  
Includes human carcinogens or suspected human carcinogens of importance in the United States. Outlines the evidence for their carcinogenicity, uses, occurrence, and regulatory action.

62. Atlas of Odor Character Profiles compiled by Andrew Drownieks. American Society of Testing and Materials, Philadelphia, 1985.  
(TD 886 D72 1985)  
Over 100 chemicals are evaluated with regard to odour. Up to one hundred and forty-six standards were used for odour characterization. Data were obtained through the efforts of over 500 panelists.
63. Atmospheric Monitoring for Transportation Emergencies Ontario Ministry of the Environment, Toronto, 1981.  
(TD 890 057 1981)  
Contains a summarized description of monitoring methods for some 79 priority chemicals. Supporting safety information are presented alphabetically for each substance.
64. Biohazards Reference Manual. American Industrial Hygiene Association, Biohazards Committee, Akron, Ohio, 1985.  
(MOL RC967.B615 Ref)  
Provides information helpful in answering questions on potential and known biohazards. This source is limited to the biological agents and excludes chemicals and radiation.
65. Canadian Chemical Register, prepared by the Ministry of Industry, Trade and Commerce, Chemical Branch Dept. Supply and Services Canada, Ottawa, 1979.  
(MOL HD9655.C3 C16 Ref)  
Is an index to chemicals made in Canada. Provides names of producing companies and plant locations. Access by companies' names also provided.
66. Cancer Causing Chemicals, by N. Irving Sax. Van Nostrand Reinhold, New York, 1981.  
(RC 268.6 S29)  
Lists chemicals with the results of carcinogenicity tests, which are given as conclusive, suggestive, or indeterminate. Includes summaries from the IARC Monographs.



67. Carcinogens in Industry and the Environment, edited by J.M. Sontag. Marcel Dekker Inc., New York, 1981. (RC 268.6 C37)  
The major objective of this book is to clarify the relationship between exposure to known carcinogens and humans and to catalogue carcinogens according to where they are found and how they are used. Addresses critical social and scientific issues associated with environmental carcinogens.
68. Cassarett and Doull's Toxicology, the Basic Science of Poisons, 2nd edition, edited by John Doull et al. Macmillan, New York, 1980. (RA 1211 C296 1980)  
The basic text on toxicology. Outlines the different areas of concern in the field of toxicology and the toxicity of major substances.
69. Catalogue of Teratogenic Agents, by Thomas H. Shepard. Johns Hopkins University Press, Baltimore. 1980. (QM 691 S43 1980)  
Lists alphabetically over 600 substances known to cause birth defects in experimental animals. References and abstracts relevant studies.
70. Chemical Hazard Information Profiles (CHIPs). United States, Environmental Protection Agency, Office of Pesticides and Toxic Substances, Washington, D.C., 1976-. (RA 566.22 U55)  
Presents a preliminary reviews of environmentally and toxicologically important material for substances which are being considered for regulations under the Toxic Substances Control Act. Contains a summary and preliminary assessment of readily available health, environmental effects and exposure data. Produced irregularly.
71. Chemical Hazards of the Workplace, by N.H. Proctor and J.P. Hughes. J.B. Lippincott Co., Toronto, 1978. (MOL RA 1229.P964 Ref)  
Provides potential effects of exposure to approximately 400 toxic substances at workplace. Fundamentals of toxicology, clinical signs of overexposure, medical measures and methods of treatment for each chemical is provided.

72. Chemical Information Manual. Government Institutes, Rockville, Md. [1987]  
This manual presents a wide variety of data on over 1200 chemical substances. Potential workplace hazards, physical and chemical properties, exposure limits, health and safety effects and regulatory compliances are presented.
73. Chemical Products Desk Reference, edited by Michael and Irene Ash. Chemical Publishing Co., New York, 1987.  
It consists of: part 1, a dictionary of chemical trademarks which includes more than 50,000 tradename chemicals; part 2, a function taxonomy of tradenames; part 3 lists chemical components. Under each generic chemical, all the tradename products containing that particular ingredient are listed and part 4 is a manufacturers' directory.
75. Chemical Safety Data Sheets. Fisher Scientific Co., Fairlawn, N.J., 1984.  
(T55 3H3 R48 1984)  
These datasheets briefly outline good working practices and general health and safety hazards for industrial chemicals.
76. Clinical Toxicology of Agricultural Chemicals, by Sheldon L. Wagner. Oregon State University Environmental Health Sciences Center, Cornwallis, Oregon, 1981.  
(RA 1270.P4 W34 1981)  
Gives a short synopsis on agricultural chemicals including uses, first aid, environmental fate, toxicological information and safe handling procedures. Provides general information on agricultural chemical production, use and toxicity.
77. Clinical Toxicology of Commercial Products: Acute Poisoning, 5th edition, edited by Robert Gosselin et al., Williams & Wilkins, Baltimore, 1984.  
(RA 1211 G5 1984)  
Is a useful guide to toxicity of commercial products. Ingredients are accessible by name and CAS registry number. The trade name section outlines the ingredients of many products. Also gives general formulation for particular types of products.
78. Compilation of Odor and Task Threshold Values Data, edited by F.A. Tazzalasi. American Society for Testing and Materials, Philadelphia, 1978.  
(RA 566.22 F38 1978)  
Includes information on taste and odor threshold for chemicals in various medicines. Access is available by chemical name, molecular formula and Wiswesser Line Notation.

79. Complete Guide to Pest Control: With and Without Chemicals, by G.W. Ware. Thomson publications, Fresno, Ca., 1980.  
(SB 951 W28 1980).  
Provides information on home pest control. Includes non-chemical control methods.

80. Concise Chemical and Technical Dictionary, 4th edition, edited by H. Bennett. Chemical Publishing Co., New York, 1986.  
(QD5 C54 1986 Ref)  
Gives short definitions for nearby 85,000 terms on chemistry, metallurgy, pharmacy, plastics, mineralogy, electricity and engineering. Includes trade name products.

Condensed Chemical Dictionary. See: Hawley's Condensed Chemical Dictionary

82. Controversial Chemicals: A Citizen's Guide, edited by P. Kruus and I.M. Valeriote, Multiscience Publications, Montreal, 1984  
(RA 1229 C66 1984)  
Discusses the environmental health of 30 chemicals or groups of chemicals. Written for the general public.
83. CPI Product Profiles. Corpus, Toronto, (dates vary).  
(TP 201 C68 Ref)  
This loose leaf publication presents information on domestic manufacturing, imports, and buyers of various chemical compounds.
84. CRC Handbook of Chemical Synonyms and Tradenames. 8th edition, edited by William Gardner, et al. CRC Press, Boca Raton, Florida, 1978.  
(QD 5 G38)  
Gives the chemical name, manufacturer trademarks or common name and the manufacture for a variety of substances. Indicates use and general characteristics.
85. CRC Handbook of Chemistry and Physics, edited by Robert C. Weast. CRC Press, Boca Raton, Florida, (annual).  
(QD 65 H3 1982)  
Is useful for obtaining chemical and physical properties of substances.
86. CRC Handbook of Identified, Carcinogens and Non-Carcinogens: Carcinogenicity, Mutagenicity Database, edited by Jean V. Soderman. CRC Press, Boca Raton, Florida, 1982.  
(RC 268.6 S63 1982)  
References studies on the carcinogenicity and mutagenicity of chemicals arranged by chemical class and target organ. Includes a chemical name index.

87. Criteria for a Recommended Standard....Occupational Exposure to....., United States Department of Health and Services, National Institute for Occupational Safety and Health, Cincinnati, OH, dates vary.  
(Different call numbers)  
Several documents have been published under this series. The essential feature of each publication is that it recommends a standard for promulgation by an appropriate regulatory body.
88. Crop Protection Chemicals Reference, 3rd edition. Chemical and Pharmaceutical Press, New York, 1987.  
(SB 950.95 C94 1987 Ref)  
Is a comprehensive reference source on crop protection chemicals. It is arranged alphabetically by the company's name. Under each company chemicals are listed alphabetically.
89. Current Intelligence Bulletin. National Institute for Occupational Safety and Health (NIOSH), Rockville, Md., dates vary.  
(Different call numbers)  
Current Intelligence Bulletin has been published since 1975 concerning occupational hazards. These bulletins have been also reprinted under the title: "Current Intelligence Bulletin Reprint". Each reprint includes few issues related to occupational hazards.
90. Dangerous Goods Guide to Initial Emergency Response. Supply and Services Canada, Ottawa, 1986.  
(T 55.3H2 C36 1986 Ref)  
Provides general information on some 38 hazardous substances. Under each substance potential hazards and emergency action is discussed. Includes two useful indices.
91. Dangerous Properties of Industrial Chemicals. 6th edition, edited by N. Irwing Sax, Van Nostrand Reinhold, New York, 1984.  
(T 55.3H3 S3 1984)  
Commonly known as Sax's. Devoted to short entries outlining the hazardous properties of commercially important chemicals. RTECS data for the chemicals considered is included.
92. Datasheet, Occupational Safety and Health: Effects of Physical and Chemical Hazards on the Reproductive Health of Male and Female Workers. Canada Safety Council and the Canadian Advisory Council on the Status of Women. Canada Safety Council, Ottawa?, 1981-.  
(MOL HD 7260.C3.C16 Ref)  
Provides toxicity data on hazardous materials in workplace.

93. Documentation of the Threshold Limit Values and Biological Exposure Indices, 5th edition. American Conference of Governmental Industries Hygienists Inc., Cincinnati, 5th Edition, 1986.  
(RA 1215 A52 1986 Ref)  
Provides threshold limit values, physical and chemical properties plus a brief review of relevant toxicological studies. References are included.
94. Drinking Water and Health. by the National Research Council, Assembly of Life Sciences Advisory Centre on Toxicology Safe, Drinking Water Committee. National Academy Press, Washington, D.C., 1977 (last update 1986).  
(RA 591 N38)  
Evaluates the health effects of chemical contaminants in drinking water suggesting, if possible, maximum concentrations in water. New volumes update the previous ones by providing additional information on chemicals already considered, and including previously unconsidered substances.
95. Emergency Handling of Hazardous Materials in Surface Transportation, edited by Patrick J. Student. Association of American Railroads, Bureau of Explosives, Washington, D.C., 1981.  
(T 55.3H3 S85 1981 Ref)  
Gives concise instructions of the methods of handling chemical accidents including personnel protection, environmental considerations and fire fighting techniques. Available on-line.
96. Emergency Response Guide for Dangerous Goods. Copp Clark Pitman, Toronto 1982. (For Transport Canada, Transport of Dangerous Goods Branch in cooperation with Supply and Services Canada).  
(T 55.3H3 E64 1982).  
Outlines in general terms action necessary by field personnel in cases of chemical accidents. Access is by United Nations product identification number or North American number, and chemical name in French or English.
97. Emergency Response Guidebook: Guidebook for Hazardous Materials Accidents. U.S. Dept. of Transportation, Material Transportation Bureau, Washington, D.C. 1984  
(T 55.3H3 U54 1984).  
Is geared to workers in the field. Outlines the necessary procedures for dealing with chemical accidents. Provides directory information to appropriate authorities. Essentially equivalent to Transport Canada's Emergency Response Guide.

98. Encyclopedia of Chemical Trademarks and Synonyms, edited by H. Bennett. Chemical Publishing Co., New York, 1981. (QD 5 B35 1981 Ref)  
Is similar to the CRC Handbook but without descriptions of use or general characteristics. There is little overlap in the two dictionaries.
  99. Environmental and Technical Information for Problem Spills, (TIPS). Environment Canada Environmental Protection Service. Supply and Services Canada, Ottawa, 1984. (T55.3S6 C36 Z35 1985)  
This is a series of individual manuals discusses specific substances. Each includes toxicological, environmental and safety information.
  100. Environmental Glossary, edited by G. William Frick and T.F.P. Sullivan. Government Institutes Inc., Rockville, Md., 1986. (TD 173 E58 1986 Ref)  
Lists terms and abbreviations along with clear definitions used in regulations for EPA, OSHA and Federal statutes.
  101. Environmental Health Criteria. World Health Organization, Geneva, data varies. (Different call numbers)  
This series has been published since 1976 under the joint sponsorship of the U.N. Environment Programme, WHO and the International Labour Organization. Publications under this series carry out evaluations of the effects of chemicals on human health and on the environment. Each issue devoted to a specific chemical.
- EPA toxicology handbook See: Toxicology handbook
102. European Directory of Agrochemical Products. Royal Society of Chemistry, Nottingham, England, 1986. (SB 950.9 E89 1986 Ref)  
Provides data on agrochemical products used in Europe. Published in four volumes: Vol. 1 fungicides; Volume 2, herbicides; Volume 3, insecticides and acaricides; and Volume 4 plant growth regulators, etc. Volume 4 is available on-line.
  103. Farm Chemicals Handbook, edited by Dr. Bert L. Bohmont. Meister publishing, Willoughby, Ohio, Annual (SB 950.95 F27 1985)  
Includes access to agricultural products by trade and common name. Toxicity, application method, formulation and chemical properties are outlined for pesticide compounds presently used or formally used in the U.S. and around the world.

104. Fire Protection Guide on Hazardous Materials, 8th edition.  
National Fire Protection Association, Boston, Mass., 1984.  
(T 55.3H3 N37 1984)  
Outlines safe handling and fire handling of materials.  
Includes data such as: flash point index, properties of  
flammable limits, reactive hazards, general hazards,  
associated with chemicals.
105. Firefighter's Handbook of Hazardous Material, 4th edition  
by Charles J. Baker. Maltese Enterprises Inc.,  
Indianapolis, 1984.  
(T.55.3H3 B34 1984)  
Entries for 5,600 substances including information on  
toxicity, vapour density, specific gravity, water  
solubility, D.O.T. classification, flash point,  
flammability limits, ignition temperature and fire  
fighting instructions. Information is presented in  
table form.
106. First Aid Manual for Chemical Accidents, compiled by Marc  
J. Lefevre, Van Nostrand Reinhold, New York, 1980  
(T 55.3H3 L43 1980)  
Provides both symptoms and first aid for cases of  
chemical poisoning.
107. Fruit Production Recommendations. Ministry of Agriculture  
and Food. Queen's Printer for Ontario, Toronto, 1987.  
Provides information and recommendation on fruit  
production in Ontario. Use of pesticide is being  
discussed.
108. Gardner's Chemical Synonyms and Trade Names, 9th edition,  
by William Gardner. Gower Technical Press, Aldershot,  
England, 1987.  
(QD5 G38 1987)  
Provides trade names, synonyms and some data on  
chemicals in the fields of pharmaceuticals,  
agricultural chemicals, petrochemicals, plastics,  
polymers and synthesis. Includes an alphabetical list  
of supplies.
109. Guide to Chemical Weed Control. Manitoba Ministry of  
Agriculture, Winnipeg, 1976.  
(SB 613.C36 M36 1976)  
Includes herbicide recommendation for weed control in  
Manitoba.

110. Guide to the Chemicals used in Crop Protection, 7th edition, by E.Y. Spencer. Supply and Services Canada, Ottawa, 1982.  
(SB 950.95 S63 1982)  
Lists chemicals used in crop protection. Provides general information such as alternative names, chemical formula, history manufacturer, physical and chemical properties on chemicals.
111. Guide to Weed Control, 1988 edition, Ontario Ministry of Agriculture and Food. Queen's Printer for Ontario, Toronto, 1987.  
Is a general guide to weed control in field and horticultural crops. Roadsides and non-crop areas weed control is also included. Provides data on herbicide used in Ontario. Gives toxicity data, and recommendations in using chemicals safely.
112. Handbook for Pesticide Applicators and Pesticide Dispensers. British Columbia Ministry of Environment, Pesticide Control Branch, Victoria, B.C., 1979.  
(SB 950 B65 1979)  
Covers basic information on pesticides and their proper use.
113. Handbook of Acute Toxicity of Chemicals to Fish and Aquatic Invertebrates, by the United States Department of the Interior, Fish Wildlife Service. U.S. Department of the Interior, Fish Wildlife Service, Washington, D.C., 1980.  
(QP 82.C4 J64 1980)  
Compiles the results of toxicity tests on fish and aquatic invertebrates conducted at the Columbia National Fisheries Research Laboratory in 1965 - 78.
114. Handbook of Carcinogen Testing, edited by H.A. Milman and E.K. Weisburger. Noyes publications, 1985.  
(RC 268 65 H15 1985)  
Provides information on carcinogens. Risk assessment, criteria for chemicals suspected of carcinogenic activity, models and investigation approaches.
115. Handbook of Data on Organic Compounds, edited by Robert Weast and Melvin Astle. CRC Press Inc., Boca Raton, Florida.  
Presents physical and chemical properties for numerous organic compounds.



116. Handbook of Environmental Chemistry, edited by O. Hutzinger. Springer-Verlag, New York, 1980-. (TD 172.5 E61)  
This handbook is published in three volumes and provides information about basic distributors and chemical reactions, processes which occur in the environment.
117. Handbook of Environmental Data on Organic Chemicals, 2nd edition, by Karel Verschuren, Van Nostrand Reinhold, New York, 1983. (TD 196.073 V47 1983)  
Short entries provide a good summary of data on the physical and chemical properties, odour threshold, air pollution, water pollution and biological effects of organic compounds.
118. Handbook of Environmental Genotoxicology, edited by E. Sawicki. CRC Press, Boca Raton, Florida, 1982. (MOL RB155.H236 Ref)  
A concise summary on environmental genotoxic agents arranged alphabetically by substance.
119. Handbook of Hazardous Materials: Fire Safety Health, 2nd edition, by the Industrial Hygiene Subcommittee of the Alliance of American Insurers. The Alliance, Shaunburg, Illinois, 1983. (T 55.3H3 H36 1983)  
Lists of materials in alphabetical order tabular format and provides threshold limit values, health, flammability, reactivity and other information relevant to fire and safety of hazardous materials. Includes a synonym index.
120. Handbook of Industrial Residues, by J.C. Dyer and N.A. Mignone. Noyes Data, Park Ridge, N.J. 1983. (TD 897 D94 1983)  
This handbook has been prepared to assist publicly owned treatment works and their industrial users solve waste management problems.
121. Handbook of Industrial Toxicology, 3rd edition, by E.R. Plunkett. Chemical Publishing Co., New York. 1987.  
Provides concise information on industrial chemicals including synonyms, description, occupational exposure, Threshold Limit Value, toxicity and preventive measures.
122. Handbook of Poisoning, 10th edition, by Robert Dreisbach. Lange Medical Publications, Los Altos, Calif., 1980. (RA 1215 D84 1980)  
Is a concise summary of diagnosis and treatment of poisoning geared to the non-medical expert.

123. Handbook of Reactive Chemical Hazards, 2nd edition, by L. Bretherick, Butterworths, London, 1979.  
(T 55.3H3 B74 1979)  
Outlines probable or possible hazardous reactions due to the reaction between chemical substances.
124. Handbook of Toxic and Hazardous Chemicals and Carcinogens. 2nd edition, by Marshall Sittig, Noyes Data, Park Ridge, N.J., 1985.  
(RA 566.22 S58 1985 Ref)  
Includes information on about 600 chemicals which prominent U.S. institutions have listed. Entries vary greatly in length, with an emphasis on occupational health and safety.
125. Handbook of Toxicity of Pesticides to Wildlife, 2nd edition, by R.H. Hudson et al. Prepared for the U.S. Fish and Wildlife Service. National Technical Information Service, Springfield, VA., 1984.  
(MICRO)  
Cover summaries of large volume of toxicity data resulted from the toxicity tests performed over a number of years at the Denver wildlife Research Centre.
126. Handbook on the Toxicology of Metals, edited by L. Friberg et al. Elsevier, Amsterdam, 1986.  
(RA 1230 H15 1986)  
This is a comprehensive review dealing with the effects of metallic elements and their compounds on biological systems. General aspects are discussed in Vol. 1, and Vol. 2 includes reviews of specific metals.
127. Handbook on Toxicity of Inorganic Compounds, edited by Hans G. Geiler et al. Marcel Dekker, New York, 1988.  
(RA 1230 H236 1988)  
Contains information on toxicity of elements of the periodic table up to number 103 (Lawrencium). The focus is on the toxicity of the elements and their compounds to humans, but toxicity toward animals and problems of ecotoxicity are also considered. Includes comprehensive Author and Subject Indices.
128. Hawley's Condensed Chemical Dictionary, 11th ed., Revised by N.I. Sax and R.J. Lewis. Van Nostrand Reinhold Co., New York, 1987.  
(QD 5C5 1987 Ref)  
A standard reference, it provides synonyms, chemical formula, properties, hazard, use and CAS numbers of chemicals.

129. Hazardous Chemicals Desk Reference, by N. I. Sax and R.J. Lewis, Sr., Van Nostrand Reinhold, New York, 1987.  
(T55.3.H3 H428 1987 Ref)  
Lists some 4700 hazardous chemicals. For each chemical the following information is given: 1 to 3 hazard rating; CAS, NIOSH and DOT numbers; selected physical properties; synonyms; and current standards for exposure limits.
130. Hazards In The Chemical Laboratory, 4th edition, edited by L. Bretherick. Chemical Publishing Co., New York, 1987.  
Covers safety practices, measures and toxic effects for laboratories handling dangerous chemicals.
131. HCIS Synonyms/Tradenames Index, prepared by Dillon Consulting Engineers and Planners for the Ontario Ministry of the Environment, Hazardous Contaminants and Standards Branch, Toronto, 1982.  
(QD 5 D55 1982)  
Lists synonyms and tradenames of contaminants under consideration by the Ministry (209 chemicals).
132. Hazardous Chemical Information Annual, edited by N. Irving Sax, Gage, Agincourt, Ontario, 1987.  
Compliments Dangerous Properties of Industrial Materials. Over 200 industrial chemicals are included. Type of information included is CAS registry number, synonyms common uses, manufacturers, molecular and structural formulae, storage and handling, toxicity data, personal safety precautions, environmental impact, recent Federal Register citations, bibliographic references.
133. Hazardous Chemicals Data Bank, by G. Weiss. Noyes Data, Park Ridge, N.J., 1986.  
(T55 3H3 W45 1986 Ref)  
Contains instant information on 1,015 hazardous chemicals. Data related to the physical and chemical properties, chemical reactivity, hazard classifications, labeling, shipping information, health hazards, fire exposure and water pollution effects are provided for each chemical.
134. Hazardous Materials Dictionary, by R.J. Coleman et al. Technomic Publishing Co., Lancaster, Pennsylvania, 1987.  
Gives definitions of the words, phrases, abbreviations, acronyms and symbols on hazardous materials.

135. Health Assessment Document. U.S. Environmental Protection Agency, Washington, D.C., dates vary.  
(Different call numbers)  
EPA's Office of Health and Environmental Assessment has prepared a number of reports which have been published under the series title "Health Assessment Document". Each report deals with a specific chemical and provides chemical's toxicity, effect levels and other measures of dose-response.
136. Herbicide Handbook of the Weed Science Society of America, 5th edition. Weed Science Society of America, Champaign, Illinois, 1983.  
(SB 950.95 W43 1983)  
Offers a summary of physical properties, toxicity and environmental fate for a wide range of herbicides used in the U.S. Includes an index by tradename and common chemical name of active ingredients.
137. IARC Monographs on the Evaluation of Carcinogenic Risk of Chemicals to Humans. International Agency for Research on Cancer, Lyon, 1972-.  
(RC 268.6 I58 1972)  
These monographs evaluate the evidence of carcinogenicity for chemicals of importance to humans. Prepared by one of the world authorities on cancer, (the International Agency for Research on Cancer). Supplement 3 gives an index to the substances covered in volumes 1-26 of the series. Supplement 4 a summary of substances found to be carcinogenic or potentially carcinogenic to humans.
138. Information Dossiers on Chemicals, by H.S. Menon. Unpublished, prepared for the Ontario Ministry of the Environment, Air Resources Branch, Atmospheric Contaminants and Research Planning Unit, Toronto, 1981-82.  
(RA 566.22 M45)  
From the review of the literature, it presents information on the properties, uses, manufacture, environmental fate, sampling and analytical procedures, and health effects of selected chemicals, with special reference to air pollution.
139. Insect and Disease Control in the Home Garden. Ministry of Agriculture and Food. Queen's Printer for Ontario, Toronto, 1986.  
Provides the home gardener with pest control information. Includes recommendations for pesticide use.

140. Insecticide, Herbicide, Fungicide Quick Guide, by B.G Page and W.T. Thomson, Thomson Publications, Fresno, California, (Annual).  
(SB 950.95 P23 1985)  
A thumb guide to pesticides recommended for use on particular crops. Access is provided by product or plant.
141. International Regulatory Aspects for Pesticide Chemicals, by G. Vettorazza, CRC Press, Boca Raton, Florida, 1979 and 1982.  
(RA 1270 P4 V38 1979)  
One hundred and forty three pesticides toxicity profiles are found in volume 1. The information includes acceptable daily intakes and a list of WHO/FAO documents on residues in food. Volume 2 presents tableau summaries and bibliography.
142. Kirk-Othmer Encyclopedia of Chemical Technology, 3rd edition, John Wiley, New York, 1978-1984.  
This encyclopedia is useful for an overview of manufacturing processes. Half of the entries deal with chemical substances, giving a general overview, properties, manufacturing processes and uses. Also available on line. Two volume abridged version now available.
143. Lange's Handbook of Chemistry, edited by J.A. Dean. McGraw-Hill, New York, 1985.  
(QD 4 D12 1985 Ref)  
Provides general information on chemistry. A separate chapter is devoted to mathematical tables and equations. Includes formula index to help to locate a desired entry for an organic compound and table of PDA values which covers 2300 organic acid.
144. Manual for Spills of Hazardous Materials. Environmental Canada, Environmental Protection Services, Technical Services Branch. Supply and Services Canada, Ottawa, 1984.  
(T55.3H3 C16 1984).  
This manual provides qualitative and quantitative information for those responding to, or preventing for hazardous materials spills. Data on chemical and physical properties, fire properties, human health and toxicity and environmental toxicity of hazardous substances are included.
145. Manual of Pest Control, 5th edition, by the Department of National Defence. Supply and Services Canada, Ottawa, 1983.  
(SB 950.95 C36 1983 Ref)  
Provides information on the life cycles and habits of pests and advice on methods, equipment and materials recommended for their control.

146. Material Safety Data Sheets, compiled and edited by J. Merla Nielsen, Genium Publishing Corporation, Schenectady, N.Y. 1980-.  
(T 55.3H3 G35 1980 Ref)  
Data sheets on a variety of substances originally prepared by General Electric. Provides an index by chemical name and trade name. Includes general occupational health and safety information.  
(Also available on microcomputer version)
147. Merck Index: An Encyclopedia of Chemicals and Drugs, 10th edition. Merck and Company, Rahway, New Jersey, 1983  
(RS 356.M524 M524 1983)  
Includes general properties, trade marks, uses, pharmacological action and toxicity of nearly 10,000 compounds. Emphasis is on medically important substances. Available on-line.
148. National Toxicology Program Chemical Registry Handbook, by the United States, National Library of Medicine, Specialized Information Services Division, U.S. Government Printing Offices, Washington, D.C., 1981.  
(TD 173.5 U56 1981)  
Lists alphabetically by name chemicals considered for testing between 1978 and 1980. Each entry gives CAS registry number, synonyms, structure, action taken by NTP and information sources.
149. National Toxicology Program Technical Report, by the United States, Public Health Service, National Toxicology Program, U.S. Government Printing Office, Washington, D.C., on going.  
(RC 268.65 N35)  
This series started in 1977, originally under the National Cancer Institute, reports 2-year rat and mouse toxicology and carcinogenicity bioassays undertaken by the National Toxicology Program.
150. The New Pesticide Users' Guide by B.L. Bohmont. Reston, VA, 1983.  
(SB 951 B67 1983)  
Serves as an introductory guide to safe handling and the toxicity of pesticides.
151. NIOSH Pocket Guide to Chemical Hazards, prepared by the National Institute for Occupational Safety and Health, U.S. Government Printing Office, Washington, D.C. 1985.  
(RA 566.22 M22 1985 Ref)  
Gives the briefest of information on Occupational health and safety of chemicals. Refer to NIOSH/OSHA Occupational Health Guidelines for more information.

152. Nomenclature of Organic Chemistry, Section A, B, C, D, E F and H, by J. Regaudy and G.P. Klesney. Pergamon, New York, 1979.  
(QD 291 I5B 1979)  
Gives instructions and examples for the naming of organic compounds.
153. Occupational Health and Safety Management Handbook, edited by F. Makdessian et al. Corpus, Toronto, 1987.  
(MOL HD 7657.C823 1987 Ref)  
It is a guide to government services and laws in Occupational Health and Safety in Canada. Provides lists of key contacts and OHS consultants in Canada.
154. Patty's Industrial Hygiene and Toxicology, 3rd edition, edited by George D. Layton, et al., John Wiley, New York, 1978-1982.  
(RC 967 P37) Volume 2A, B, C.  
A key reference source which summarizes human toxicological data for a wide range of chemicals. Use, manufacturer, and properties are included.
155. Pest Control Canada: a Reference Manual, edited by Ed Clutton. PACS, Burlington, Ontario, 1987.  
(SB 950.AL P47 1987 Ref.)  
Covers variety of information on pesticides and pest control. Lists pest control products covering their actions and Agriculture Canada's active ingredient code. Has a directory of supply and distribution companies, toxicology research centres, pesticide laboratories and other organizations of interest.
156. Pesticide Chemical News Guide, Food Chemical News Inc. Washington, D.C., 1981.  
(RA 601 P38 1981)  
Lists U.S. Environmental Protection Agency tolerances and exemptions for pesticides on food. Access is given by crop or chemical.
157. Pesticide Fire and Spill Control, U.S. Fire Administrative and U.S. Environmental Protection Agency. National Fire Protection Association, Boston, Mass., 1979?  
(SB 952.5 N38)  
This source is based on a course developed by U.S. E.P.A., office of pesticide programs. It provides information required to safely control a pesticide fire or spill.

158. Pesticide Handling: A Safety Handbook, 4th edition, Health and Welfare Canada. Supply and Services Canada, Ottawa, 1986.  
(SB 952.5 P37 1986 Ref)  
It is designed to provide a general overview of safe pesticide handling. It is primary directed at commercial users.
159. Pesticide Index, compiled and edited by William J. Wiswesser. Entomological Society of America, College Park, Maryland, 1976.  
(SB 950.95 P46 1976 Ref)  
Includes identifying information, structural formula, LD<sub>50</sub>'s, uses and physical appearance for 1600 pesticides. Includes a CAS nomenclature Index, WLN Structure Index, and a Molecular Formula Index. An index is also included of the entries sorted by their numeric component.
160. Pesticide Manual: A World Compendium, 8th edition, edited by Charles R. Worthing. British Crop Council, Croydon, England, 1987.  
(SB 950.95 B86 1987)  
A standard reference work, it gives concise information on pesticides such as: nomenclature, manufacture, properties, principle uses, toxicology, formulations, analytical methods, manufacturer.
161. Pesticide Manufacturing and Toxic Materials Control Encyclopedia, edited by Marshall Sittig, Noyes Data Corp., Park Ridge, New Jersey, 1980.
162. Pesticide Residues in Food Evaluation. Food and Agriculture Organization of the United Nations, Rome, 1966 -.  
(RA 601 F66 1966)  
A thorough evaluation of toxicological and environmental data on agricultural chemicals. Different chemicals are evaluated each year. An index for substances evaluated from 1975 - 1978 is available. Information includes acceptable daily intake.
163. Pesticide Residue Limits in Food (MRL's). Health and Welfare Canada, Food Directorate, Ottawa, 1986.  
(KE 3696 C36 1986)  
Provides maximum residue limits (MRL's) of pesticides in foods in tabular format.
164. Pesticides and Human Health, by W.H. Hallenbeck and K.M. Cunningham-Burns. Spring-Verlag, New York, 1985.  
(RA 1270.P4 H184 1985 Ref.)  
Provides a quick and easy access to the acute and chronic health effects and toxicology of pesticides. Inert ingredient and/or active ingredient are covered. Includes an index of pesticide ingredients. Classes of ingredients are discussed.



165. Pesticides Guide: Registration, Classification and Application. J.J. Keller and Associates. Neenah, Wisconsin, 1980-.  
(T 55.3H3 K43P 1980)  
Gives an overview of U.S. regulatory requirements and tolerances for pesticides. Periodically updated.
166. Pesticides Handbook - Entoma. Entomological Society of America, College Park, Md, (Annual).  
(SB 950.95 E58 1981 Ref)  
Part one outlines the American regulatory status and offers directory information. Part two lists alphabetically American commercial products, their uses, active ingredients and manufacturers.
167. Pesticides Safety Handbook. Ontario Ministry of the Environment, Toronto. 1981.  
(SB 952.5 057)  
Provides general information on pesticides safety. Includes tables of LD<sub>50</sub> values of pesticides that have been used in Ontario.
168. Pesticides Studied in Man, by Wayland J. Hayes, William & Wilkins, Baltimore, Md., 1982.  
(RA 1270.P4 H37 1982).  
Summarizes the toxicology of pesticides with emphasis on the effects to humans.

Pesticides Users Guide, See: New Pesticides Users Guide

170. Poisindex. Micromedex, Englewood, Colorado, 1974.  
Is a microfiche database giving information on symptoms, pharmacology, treatment and toxicity of 190,000 substances geared to dealing with cases of acute poisoning. Updated quarterly.
171. Poison Control Manual. Chipman Inc. Stoney Creek, Ontario. (latest update August 1986)  
(RC 965.A5 L47 1981)  
Provides poisoning information on products distributed by Chipman. Access is by product name.
172. Poison Management Manual. University of British Columbia, the British Columbia Drug and Poison Information Centre. Canadian pharmaceutical Ass., Ottawa, 1984.  
(MOL RA1224.5.B862 Ref)  
Provides basic information on hazardous substances. Presents the formulations of products most commonly involved in poisoning. Includes recommendations on the specific treatment for toxic exposures and overdoses.

RTECS. See Registry of Toxic Effects of Chemical Substances.

174. Rapid Guide to Hazardous Chemicals in the Workplace, edited by W. Irving Sax and Richard J. Lewis. Van Nostrand Reinhold Company, New York, 1986.  
(T 55.3H3 R37 1986)  
Brief entries for over 500 chemicals provides identifying information, standards and recommendations, toxic and hazard reviews and physical properties.
175. Recognition and Management of Pesticide Poisonings, 3rd edition, by D.P. Morgan. U.S. Environmental Protection Agency, Washington D.C., 1982.  
(RA 1270.P4 M88 1982 Ref)  
This manual is designed to help professionals responsible for the health of persons exposed to pesticides to recognize and treat properly poisonings by these substances. Includes indexes to pesticide poisonings by symptoms and signs and name of the pesticide.
176. Registry of Toxic Effects of Chemical Substances, 1981-82 edition, edited by R.L. Tatken and R.J. Lewis. NOISH, Cincinnati, 1983.  
(RA 1193 R33 1982 Ref)  
RTEC is the most complete compendium of toxicity information on chemicals but not trade names products representing compounded or formulated property mixture available as commercial products. Available on-line and microfiche updates.
177. Reproductive Hazards of Industrial Chemicals: An Evaluation of Animal and Human Data, by S.M. Barlow and F.M. Sullivan. Academic Press, London, 1982.  
(RA 1229 B38 1982)  
Discusses reproductive hazards from industrial chemical exposure. Gives comprehensive information on toxicology, mutagenicity and carcinogenicity on 48 industrial chemicals.
178. Riegel's Handbook of Industrial Chemistry, 8th ed., edited by J.A. Kent. Van Nostrand Reinhold, New York, 1983.  
(TP 145 K36 1983 Ref.)  
Provides an up-to-date account of the many facets of the chemical process industry.
179. The Sigma-Aldrich Library of Chemical Safety Data, 2nd edition, edited by R.E. Lenga. Aldrich Chemical Co., Milwaukee, Wisconsin, 1988.  
A reference for the safe handling of over 14,500 chemicals. Chemical name and CAS no. index are provided. Each entry includes data on safe handling, properties and toxicity and more.

180. Substances Hazardous to Health, edited by A.W. Gardener, et al. Groner Publishing, New Malden, England, updates every 3 months.  
(MOL RA 1229.C947 Ref)  
A loose-leaf reference source which provides basic reference to the occupational health requirements of people working with hazardous substances.  
Physical-chemical properties along with CAS number of some hazardous substances are provided.
181. Thesaurus of Chemical Products, compiled by Michael and Irene Ash, Chemical Publishing Co., New York, 1986.  
This two volume publication provides access to tradenames through the active ingredient and to active ingredients through tradenames. Manufacturers are also given.
182. Toxic and Hazardous Industrial Chemicals Safety Manual for Handling and Disposal with Toxicity and Hazard Data. International Technical Information Institute, Tokyo, 1982.  
Includes entries for numerous industrial products.  
Entries indicate toxicity, methods of handling, emergency response and disposal.
183. Toxic Substances Control Act Chemical Substance Inventory, by the United States Environmental Protection Agency Office of Toxic Substances. U.S. Government Printing Office, Washington, D.C. 1985.  
(TD 173.5 U55 1985)  
Lists all chemicals manufactured or imported to the United States in quantities of 1000 lb/mo. or more as required by TSCA. Can be used to locate CAS numbers and manufacturers. The inventory is available on-line.
184. Toxic Substances Source Book. Environmental Information Center, New York, 1978-1980.  
Useful for an overview of the issues around toxic substances.
185. Toxicology Handbook, U.S. Environmental Protection Agency Government Institute Inc., Rockville, Md., 1986.  
(RA 1215 U58 1986)  
The purpose of this handbook is to explain those principles of toxicology relevant to hazardous waste site investigations.
186. Toxicology of Pesticides, by Wayland J. Hayes, Jr. Williams & Wilkins, Baltimore, Md., 1975.  
The standard textbook on the toxicology of pesticides, it provides general principles of toxic action and management of poisoning by pesticides.

187. Vegetable Production Recommendations. Ministry of Agriculture and Food. Queen's Printer for Ontario, Toronto, 1987.  
Provides information and recommendations on vegetable production in Ontario.

188. Water-Related Environmental Fate of 129 Priority Pollutants. U.S. Environmental Protection Agency, Monitoring and Data Support Division. NTIS, Springfield, VA, 1979.  
(TD 423 C35)

This two volume report is a comprehensive review of the water-related environmental fate and transport literature available for 129 chemical compounds and elements. (U.S. EPA Priority Pollutants). Is a summary of relevant data for the individual fate processes (hydrolysis, biodegradation, photolysis, etc.)

## V. JOURNALS

Listed here are some of the major scientific journals in toxicology.

189. ACTA pharmacologica et toxicologica.  
Published by the Scandinavian pharmacological societies.  
Is published two volumes per year. Each volume consists of 5 issues in pharmacology and toxicology.
190. Archives of toxicology.  
Published by Springer-Verlag.  
Comes out bi-monthly. Intends to cover review articles and original investigations on mechanisms of toxicology, effects in man and new methods of treatment, new methods of analysis, experimental studies of chemicals which may arise during medical treatment, at work, or in the general environment and forensic toxicology.
191. Critical reviews in toxicology.  
Published by CRC Press Inc.  
Tends to provide up-to-date, objective analysis of important topics in toxicology. Appears 6 issues per year.
192. Drug and chemical toxicology.  
Published by Marcel Dekker Inc.  
Is published in six numbers in a year and publishes full-length research papers, review articles, and short notes broadly pertaining to animal toxicology, teratology, mutagenesis and carcinogenesis.  
HCCB holdings: Vol. 6(1984), Vol. 7(1985).
193. Ecotoxicology and environmental safety.  
Published by Academic Press Inc.  
Published bimonthly. Covers articles dealing with studies of the biologic and toxic effects caused by natural or synthetic chemical pollutants to ecosystems, whether animals, plant or microbial.
194. Environmental health perspectives.  
Published by the National Institute of Environmental Health Sciences.  
Six issues per year. Publishes conference and workshop proceedings. Toxicologic information summaries, overviews of areas on environmental health, and reviews on specific environmental health, and reviews on specific environmental problems and agents and of potential health hazards of particular elements in the environment.

195. Environmental and molecular mutagenesis.  
Published by the Environmental Mutagen Society.  
(QH 465.05 E58 1979)  
This journal is published eight times a year and covers a variety of topics on mutation and mutation-related topics. It also includes some materials on environmental mutagens.

Environmental mutagenesis

See: Environmental and molecular mutagenesis.

197. Environmental research.  
Published by Academic Press Inc.  
A bimonthly publication. Covers original research papers in any of the disciplines concerned with man-environment relationships.
198. Environmental toxicology and chemistry: an international journal. Published by the Society of Environmental Toxicology and Chemistry.  
Published monthly and covers papers dealing with all phases of environmental toxicology, environmental chemistry and hazard assessment.
199. Food and chemical toxicology: an International Journal.  
Published for the British Biological Research Ass.  
A bi-monthly journal. Covers toxicological topics in industry of food and chemicals. It was formerly published under title "Food and Cosmetics Toxicology".
200. Fundamental and applied toxicology.  
Published by Academic Press Inc.  
Publishes 8 issues per year. Covers scientific articles and reports relating to those broad aspects of toxicology which are relevant to assessing the risk or effects of toxic agents on human and other animal health.
201. Human toxicology: an international journal.  
Published by Macmillan Press Ltd.  
Is published bimonthly. Intends to include articles on all aspects of human toxicology.
202. Journal of chemical ecology. Published by Plenum Publishing Co.  
This journal is published monthly and covers papers dealing with the origin, functions, and significance of natural chemicals that mediate interactions within and between organisms.

203. Journal of environmental pathology, toxicology and oncology. Published by International Society for Environmental Toxicology and Cancer.  
Publishes manuscripts which relate toxicology and pathology. Frequency is six times per year.
204. Journal of the National Cancer Institute.  
Published by the U.S. Dept. of Health and Human Services.  
Covers articles, reports, reviews, etc. on the full spectrum of cancer research - molecular and tumor cell biology, biochemistry, carcinogenesis, and clinical trials and epidemiology.
205. Journal of toxicology and environmental health.  
Published by Hemisphere Publishing Co.  
Published monthly and places emphasis on the toxicological effect of nature and anthropogenic environmental pollutants and their actions on intact organisms as well as in-vitro systems.
206. Regulatory toxicology and pharmacology.  
Published by Academic Press Inc.  
Published quarterly; primarily devoted to reports of significant developments, public opinions, scientific data and ideas that bridge the gap between scientific information and legal aspects of toxicological and pharmacological regulations.
207. Scandinavian journal of work, environment and health.  
Is published bimonthly. Covers research papers dealing with the effects of chemical compounds on health and safety in the environment and workplace.
208. Toxic substances journal.  
Published by George S. Dominguez  
This is a quarterly journal which intends to provide information on toxic substances only.
209. Toxicology: An international journal concerned with the effects of chemicals on living systems. Published by Elsevier Scientific Publishers, Ireland Ltd.  
Includes scientific papers on the biological effects arising from the administration of chemical compounds, principally to animals, tissues or cells but also to man. Preference is given to those investigations dealing with the mechanisms of action of toxic agents.
210. Toxicology and applied pharmacology. Published by Academic Press.  
This monthly journal publishes articles pertaining to action on tissue structure of function resulting from administration of chemicals, drugs, or natural products to animals or humans.

211. Toxicology and industrial health: an international journal Published by Princeton Scientific Publishing.  
Is published quarterly dealing with basic and applied research in the fields of toxicology, biochemical toxicology, genetic and cellular toxicology and risk assessment associated with hazardous wastes and groundwater.
212. Toxicology in vitro: an international journal  
Published by program on journals Ltd and BIBRA  
Publishes original research papers on the use of in vitro techniques for determining the toxic effects of chemicals and elucidating their mechanisms of action.



Listed below are newsletters which are a way of keeping aware of developments and happenings of interest.

- 213. Air/water pollution report
- 214. Chemical regulation reporter
- 215. Chemecology
- 216. Eco/log week
- 217. Environmental health letter
- 218. Environmental update (Environment Canada)
- 219. Environment reporter
- 220. Hazardous materials intelligence report
- 221. Hazardous waste news
- 222. Health and Environment Digest
- 223. IRPTC bulletin
- 224. Inside EPA Weekly Report
- 225. Inside EPA Environmental Policy Alert
- 226. International Environment Reporter
- 227. Pesticides and Toxic Chemicals News
- 228. Sentinel
- 229. TSCA chemicals-in-progress bulletin
- 230. Toxic material news



## VI. DATABASES

In this Chapter a distinction is made between bibliographic and non-bibliographic (factual) databases. Bibliographic databases, such as MEDLINE and TOXLINE, consist of references to literature, i.e., the database contains information such as the author of the article, the title of article, the title of journal (or some other media) etc.

Factual (non-bibliographic) databases usually offer more factual data such as the chemical names, synonyms, LD<sub>50</sub>s, toxicity data, etc. Part A lists bibliographic databases of interest, and Part B includes factual databases.

The format in this Chapter is as follows:

- Name of databases (provider's name)
- Service or vendor from which is available
- Coverage or a short description of the content of the file
- Comments: any additional information outlining special aspects or limitations of the file; any other database which covers the same information where available or required.

### A. BIBLIOGRAPHIC DATABASES

#### 231. ACIDOA (Government of Quebec and N.Y. State) 1975 -

Vendor : IST - Informathique

Coverage : All aspects of acid precipitation such as air and atmospheric processes, environmental effects, political and socioeconomic factors, technological control.

Comments : This bibliographic database lists Canadian, American and European documents relating to the subject from 1975.

#### 232. AGRICOLA (U.S. Dept. of Agriculture) 1970 -

Vendor : Dialog (Files 10, 110)

Coverage : Agriculture, food, nutrition, pesticides, plant science, forestry ... etc.

Comments : Items are selectively abstracted. AGRICOLA is a source of books, reports and journal articles.

233. **APILIT** (American Petroleum Institute) 1964 -

Vendor : Orbit

Coverage : Petroleum refining, petrochemicals.

Comments : Limited access to subscribers.

234. **AQUALINE** (Water Resources Centre)

Vendor : Orbit

Coverage : Aqualine covers world-wide literature published since 1960 concerning commercial, technical and scientific aspects of the water and wastewater industries.

235. **AQUACULTURE** (National Oceanic and Atmospheric Administration) 1984 -

Vendor : Dialog (File 112)

Coverage : Disease, food and nutrition, legal aspects of water organisms.

Comments : Aquaculture includes citations to monographs, periodicals and conference proceedings.

236. **AQUAREF** : (WATDOC, Inland waters Directorate, Environment Canada)

Vendor : CAN/OLE, Environment Canada

Coverage : Covers scientific and technical literature, pertaining to Canadian Water Resources and other environmental topics

Comments : Updates semi-annually

237. **AQUATIC SCIENCES AND FISHERIES ABSTRACTS** (NOAA) 1987 -

Vendors : Dialog (File 44), CAN/OLE

Coverage : Science, technology and management of marine and freshwater environments.

Comments : This database corresponds to the printed "Aquatic Sciences and Fisheries Abstracts, Part 1: Biological Sciences and Living Resources, and Part 2: Ocean Technology, Policy and non-living Resources.

**ASFA**

See: Aquatic Sciences and Fisheries Abstracts.

**238. BIOSIS PREVIEWS (BioSciences Information Services)**  
1969 -

Vendor : Dialog (Files 5, 55), STN, ORBIT, CAN/OLE

Coverage : Researches in the life sciences.

Comments : Contains citations from both Biological Abstracts and Biological Abstracts/RRMO. BIOSIS includes abstracts as of 1976.

**239. BIOTECHNOLOGY (Derwent Publications Inc.)**

Vendor : Orbit

Coverge : Covers technical aspects of biotechnology. Includes over 1,000 journals, conference proceedings and patent literature from July 1982 to present.

**240. CA (Chemical Abstract Services)**

Vendor : STN

Coverage : Bibliographic information on worldwide literature from all areas of chemistry and chemical engineering.

Comments : Includes abstracts. Coverage is Chemical Abstract since 1967. Older mater in CAOLD. Related database: CA Search.

**241. CABS (Current Awareness in Biological Sciences)**

Vendor : Orbit

Coverage : CABS is a bibliographic database on the whole field of biological sciences including toxicology.

Comments : CABS includes literature from 1983 to the present.

**242. CA SEARCH (Chemical Abstracts Services) 1967 -**

Vendor : Dialog (Files 399, 308, 309, 310, 311, 312), ORBIT, CAN/OLE

Coverage : Includes citations to the literature of chemistry and its applications and the basic bibliographic information appearing in the printed "Chemical Abstracts".

243. **CAB ABSTRACTS** (CAB International) 1972 -

Vendors : Dialog (Files 50, 53), CAN/OLE

Coverage : Agriculture, food and nutrition sciences, plant, forestry, soil and fertilizers, weeds and more.

Comments : Includes all 26 main abstract journals published by Commonwealth Agricultural Bureaux.

244. **CANCERLIT** (U.S. National Library of Medicine) 1963 -

Vendor : Dialog (File 159), MEDLARS

Coverage : As of 1977 covers cancer topics and cancer-related topics. All aspects of experimental and clinical cancer therapy, carcinogenesis, mutagens, immunology, etc.

Comments : CANCERLIT contains abstracts that appeared in "Carcinogenesis Abstract" from 1963-69 and in "Cancer Therapy Abstract" from 1967 to 1979.

245. **CAOLD** (Chemical Abstract Services)

Vendor : STN

Coverage : Contains records for chemical abstracts prior to 1967. Conversion of older records is still in progress.

246. **CCRIS** (U.S. National Cancer Institute)

Vendor : CIS, Medlars

Coverage : Contains individual assay and test conditions for chemicals in the area of carcinogenicity, mutagenicity.

Comments : Bibliographic information is provided for further reference.

**CHEMICAL CARCINOGENICITY RESEARCH INFORMATION SYSTEM**

See: CCRIS

247. **CHEMICAL REGULATIONS AND GUIDELINES SYSTEM** (U.S.  
Interagency Regulatory Liaison Group) 1982 -

Vendor : Dialog (File 174)

Coverage : Is an index to U.S. federal regulatory material relating to the control of chemical substances, covering federal status, promulgated regulations, federal guidelines, standards and support documents. Refers to the code of federal regulations and amendments as they appear in the "Federal Register".

Comments : Access is provided by CAS number and chemical name. Limitation by the type of document is also possible (e.g. rule, proposed rule).

248. **CHI** (Royal Society of Chemistry) 1984 -

Vendor : STN

Coverage : Contains information on the hazards caused by chemicals, and their effects on health and safety.

Comments : CHI cites all sorts of documents including A.V. materials

249. **COAL** (IEA Coal Research Technical Information Service)  
1978 -

Vendor : CAN/OLE

Coverage : Coal industry, combustion, environmental aspects, health and safety, mining, properties, waste management and more.

Comments : This database covers books, journals, reports, dissertations and conference proceedings worldwide. Canada is a member of IEA. This database is an on-line version of Coal Abstracts.

250. **CODOC**

Vendor : CAN/OLE

Coverage : Various subject areas including environment and agriculture.

Comments : Provides access to the combined government publications of 11 academic libraries in Ontario. Includes Government or Government sponsored publications including Canadian, Provincial and Federal Government publications.

COOPERATIVE DOCUMENTS PROJECT

See: CODOC

CRGS

See: CHEMICAL REGULATIONS AND GUIDELINES SYSTEM

DATALOG See Environmental Fate Data Base

251. ELIAS 1976 -

Vendor : CAN/OLE

Coverage : Environmental impact analysis,  
environmental management, fisheries,  
forestry, land use, water resources,  
wildlife.

Comments : Provides access to the holdings of 25  
libraries participating in the network of  
the Environment Libraries Automated System  
Environment Canada. The collection of  
Fisheries and Oceans Canada is included.

252. EMBASE 1974 -

Vendor : Dialog (Files 72, 172, 173)

Coverage : Consists of abstracts and citations of  
articles from over 4,000 biomedical  
journals in the world. Covers human  
medicine and related disciplines.

Comments : This is an on-line version of printed  
Excerpta Medica plus some additional  
records that do not appear in printed  
form.

253. ENVIROLINE (EIC/Intelligence, Inc.) 1971 -

Vendors : Dialog (File 40), Orbit

Coverage : Provides indexing and abstracting coverage  
for more than 5,000 international primary  
and secondary source publications reporting  
on all aspects of the environment.

Comments : Is the on-line version of Environment  
Abstracts. Good for environmental policy,  
law and socio-economic discussion of  
pollution.



254. **ENVIRONMENTAL BIBLIOGRAPHY** (Environmental Studies  
Institute) 1973 -

Vendor : Dialog (File 68)

Coverage : General human ecology, atmospheric studies,  
energy, land/water resources nutrition and  
health.

255. **ESSENTIALS** (Canadian Centre for Occupational Health  
and Safety)

Vendor : CCINFOnline

Coverage : Occupational health and safety topics.

Comments : Provides references to selected  
publications by CCOHS specialists.  
Description of books, chapter of books and  
journal articles included.

**EXPERTA MEDICA**

See: EMBASE

256. **FEDERAL REGISTER ABSTRACTS** (National Standards  
Association, Bethesda, MD)

Vendors : Dialog (File 136), Orbit

Related Databases: FRSS, CRGS.

Coverage : The table of contents of the Federal  
Register with full titles.

257. **FOOD SCIENCE AND TECHNOLOGY ABSTRACTS** (Int'l Food  
Information Service, Reading, Berkshire,  
England)

Vendors : Orbit, Dialog (File 51)

Coverage : From a survey of over 1200 journals, it  
indexes material on all aspects of food  
production and food processing (1969-).

Comments : Abstracts are included. Related file:  
Agricola.

258. **FRSS**

Vendor : CIS

Coverage : The Federal Register Search System is a selected list of references from the Federal Register which have a chemical bearing. (1977-1982)

Comments : Access is provided by CAS number for most items. There is often a large retrieval and the search has to be narrowed to include only rule or proposed rules or other limitators. Related databases: Federal Register, CRGS

259. **GPO MONTHLY CATALOG** (U.S. Government Printing Office)

Vendors : Orbit, Dialog

Coverage : The machines readable equivalent of the Monthly Catalog of United States Government Publications, records items published by the U.S. Government Printing Office.

Comments : Not as strong in the science and technology field as NTIS. Related database: NTIS.

**GROUND WATER ON LINE**

See: **GWOL**

260. **GWOL** (National Ground Water Information Center)

Vendor : National Water Works Association

Coverage : GWOL contains references which deal specifically with ground water issues. Also includes hydrogeology and water well technology.

**IFIS**

See: **INDUSTRY FILE INDEXING SYSTEM**

**IRL LIFE SCIENCES COLLECTION**

See: **LIFE SCIENCES COLLECTION**

261. **LHB** (Royal Society of Chemistry) 1981 -

Vendor : STN

Coverage : Citations on potential hazards for chemical and biochemical research workers.

**262. LIFE SCIENCES COLLECTION** (Cambridge Scientific Abstracts, Bethesda, MD)

Vendor : Dialog (File 76)

Coverage : General database on the biological sciences, including ecology and toxicology. (1978-)

**263. MEDLINE** (U.S. National Library of Medicine)

Vendors : Medlars, Dialog (Files 154, 155)

Coverage : This major source to medical literature is produced by the U.S. National Library of Medicine.

Comments : Abstracts are included when available.

**264. METADEX** (Materials Information) 1966 -

Vendor : CAN/OLE

Coverage : Alloy production, chemical and physical properties of metals, all aspects in science and technology of metals.

Comments : METADEX printed equivalents are: "Review of metal literature" (1966-67), "Metal Abstracts" (1968 to present), "Alloy Index" (1974 to present), "Steel Supplement to Metals Abstracts" (1983-84), and "Steels Alert" (Jan-July 85).

**265. MICROLOG** (Micromedia Limited) 1979 -

Vendor : CAN/OLE

Coverage : Multidisciplinary for Canadian information. Canadian Government publications are included.

Comments : This database provides access to current Canadian report literature of reference value from government and institutional sources. The printed equivalent of MICROLOG is MICROLOG INDEX.

**NIOSH**

See: OCCUPATIONAL SAFETY AND HEALTH

266. **NTIS** (U.S. National Technical Information Service)

Vendors : Dialog (File 6), Orbit, CAN/OLE, STN

Coverage : Many U.S. government publications are redistributed by the National Technical Information Service. This database is a record of all publications which are distributed by it since 1970.

Comments : A good source of U.S. government documents, however, some are only given to NTIS sometime after publication. Another source of U.S. government publications are those from the U.S. Government Printing Office. Abstracts are included. Also available on CD-ROM. Related databases: GPO.

267. **OCCUPATIONAL SAFETY AND HEALTH** (U.S. National Institute for Occupational Safety and Health Technical Information Centre) 1973 -

Vendor : Dialog (File 161)

Coverage : All aspects of occupational safety and health. Topics as hazardous agents, unsafe workplace environment are included.

Comments : Includes citations to journals, monographs and technical reports.

268. **PAPERCHEM** (Institute of Paper Chemistry, Appleton, WI)

Vendors : Dialog (Files 240, 840), Orbit

Coverage : Indexes and abstracts the scientific and technical literature relating to the pulp and paper industry. The on-line equivalent of Abstracts Bulletins of the Institute of Paper Chemistry. (1968-)

269. **PESTDOC** : (Derwent Publications Ltd.)

Vendors : Orbit

Coverage : Covers worldwild literature on pesticides, herbicides, and plant protection.

Comments : On-line access is limited to PESDOC subscribers.

NWWA (National Waterworks Association)

See: GWOL

**270. PHARMPAT**

Vendors : STN

Coverage : Covers worldwide chemical and biochemical patents relating to drugs and pharmaceutical chemistry.

Comments : Patents published since January 1987 are included. Updates every two weeks.

**271. PHYTOTOX**

Vendors : CIS

Coverage : Contains records relating to the biological effects of the application of organic chemicals to terrestrial plants.

**PLANT TOXICITY DATA**

See: PHYTOTOX

**272. POLLUTION ABSTRACTS**

Vendor : Dialog (File 41)

Coverage : Air pollution, environmental action, Freshwater pollution, land and marine pollutions, noise, Radiation, sewage and wastewater treatment.

Comments : Better for general discussion or environmental health than for retrieval of material on specific substances. Updates bimonthly.

**273. SCISEARCH (Institute for Scientific Information)**

Vendor : Dialog (Files 34, 87, 94, 186)

Coverage : The on-line version of the Science Citation Index.

Comments : Although a term index is included, this file is best used to locate papers that have cited a certain author.

274. **STANNORM** (Standards Council of Canada)

Vendor : CAN/OLE

Coverage : Contains references to all current standards published by the organizations belonging to the National Standards System.

Comments : Coverage of STANNORM is multidisciplinary. Includes Standards for Chemicals and Allied Products, Fuel and health, industrial and commercial materials.

**SWRA**

See: WATER RESOURCES ABSTRACTS

275. **TEXTILE TECHNOLOGY DIGEST** (Institute of Textile Technology, Charlottesville, VA)

Vendor : Dialog (File 119)

Coverage : Provides access to the literature of interest to the textile industry (1978-)

Comments : A source of information on dyes and the dyeing process. Some pollution control information is available. Related databases: TITUS, World Textiles

276. **TITUSE** (Institut Textile de France)

Vendor : STN

Coverage : Bibliographic information on all phases of the textile industry including textiles and environmental pollution.

277. **TOXICO** (Centre de Toxicologie du Quebec) 1974 -

Vendor : QUESTEL

Coverage : Principal aspects of toxicology including clinical toxicology, exposure to toxic products at workplace, and environmental toxicology.

Comments : TOXICO covers some 2500 periodicals in the field.

278. **TOXLINE** (U.S. National Library of Medicine)

Vendor : Medlars

Coverage : Provides references to published human and animal toxicity studies, effects of environmental chemicals and pollutants.

Comments : TOXLINE consists of three parts: TOXLINE, TOXLIT and TOXLIT65. TOXLINE includes non-royalty files from different u.S. government departments and organizations. TOXLIT and TOXLIT65 contains extracts from Chemical Abstracts, Biological Abstracts and Excerpta Medica.

**TOXLIT**

See: TOXLINE

279. **WATER RESOURCES ABSTRACTS** (U.S. Dept. of Interior)

Vendors : Orbit, Dialog (File 117)

Coverage : Produced by the U.S. Dept. of Interior Office of Water Resources and Technology, covers all aspects of water resources management. (1968-)

Comments : Abstracts are included. Selected Water Resources Abstracts on Orbit.

280. **WATERNET** (American Waterworks Association)

Vendor : Dialog (File 245)

Coverage : Provides an index to the publication of the American Water Works Association, its Research Foundation and selected authorities.

Comments : Has a very narrow scope.

281. **WORLD ALUMINUM ABSTRACTS** (ASM International, Metals Park, OH)

Vendor : Dialog (File 33)

Coverage : All aspects of aluminum and aluminum processing. (1968-).

282. **WORLD TEXTILES** (Shirley Institute, Manchester,  
England)

Vendor : Dialog (File 67)

Coverage : The machine readable version of World  
Textile Abstracts, include information on  
pollution, safety and health hazards.

Comments : Related databases: TITUS, Textile  
Technology Digest.



**B. FACTUAL DATABASES**

**283. ACARIS (Association of American Railroads)**

Vendor : Association of American Railroads

Coverage : The computer version of emergency handling of hazardous materials in surface transportation. Related databases: CHRIS, OHM/TADS.

**AQUATIC INFORMATION RETRIEVAL**

See: AQUIRE

**284. AQUIRE (U.S. Environmental Protection Agency)**

Vendor : CIS

Coverage : Contains information on acute, chronic, bioaccumulative and sublethal effects data from tests performed on freshwater & saltwater organisms.

**285. CASR (NIH/EPA)**

Vendor : CIS

Coverage : Contains information on chemical-related activities; legislation mandating the performance, status, goals and contacts is included on each activity.

**286. CERIS**

Coverage : Is a computer program designed to provide emergency staff with information on commonly transported chemicals. Data can be accessed by chemical name.

Comments : CERIS is based on the Association of American Railroad's publication "Emergency Handling of Hazardous Materials in Surface Transportation".

287. **CESARS**

Coverage : CESARS (Chemical Evaluation Search and Retrieval System) provides a concise review of the information available necessary for evaluation of environmental and health impacts of selected chemicals divided into 185 data fields (about 200 substances).

Comments : Size of entry vary. Ontario Ministry of the Environment and Michigan Dept. of Natural Resources are preparing a major update. Related databases: OHM/TADS, HSDB, Hazardline, Chem Info, CHRIS

**CHEMICAL ACTIVITY STATUS REPORT**

See: CASR

**CHEMICAL EMERGENCY RESPONSE INFORMATION SYSTEM**

See: CERIS

288. **CHEMICAL EXPOSURE** (Science Applications International Corporation) 1974 -

Vendor : Dialog (File 138)

Coverage : Identified chemicals in human tissues, body fluids, feral and domestic animals. Information related to human and animal exposure to contaminants and pharmaceuticals in food, air and water.

Comments : Records from this database include chemical properties, synonyms, CAS nos., formula.

**CHEMICAL EVALUATION SEARCH AND RETRIEVAL SYSTEM**

See: CESARS

289. **CHEMDEX**

Vendor : Orbit

Coverage : A nomenclature file for chemicals as produced by the Chemical Abstracts Service. It contains registry number, molecular formulae, synonyms and ring system information for 3,000,000 substances.

Comments: A good source of CAS registry numbers. Once retrieved, CAS registry numbers can be used to search in CAS files using the select and crossfile features. CHEMDEX4 updates CHEMDEX. Related databases: Chemname, Chemsearch, SANSS, DARC, Chemline.

290. **CHEMEST**

Vendor : TDS (Technical Database Services)

Coverage : Provides models for qualitative structure activity relationships. Associated databases such as LogP, will provide chemical physical properties. Related database:OSAR.

**CHEMFATE**

See: Environmental Fate Data Base

292. **CHEMLINE**

Vendor : Medlars

Coverage : Essentially equivalent to Chemdex described above but limited to substances in Medlars. (500,000 substances).

Comments : Useful to assist chemical name searches on Medlars. Related databases: Chemdex, Chemname, SANSS, DARC, Chemsearch

**CHEMICAL JOURNALS OF THE ASSOCIATION OF  
OFFICIAL ANALYTICAL CHEMISTS**

See: CJAQAC

**CHEMICAL JOURNALS ONLINE**

See: CJO

CHEMICAL TOXICOLOGY OF COMMERCIAL PRODUCTS

See: CTCP

293. CHEMNAME (Chemical Abstract Service)

Vendor : Dialog (File 301)

Related Databases: Chemdex, Chemsearch, SANSS, DARC,  
Chemline

Coverage : Essentially identical to CHEMDEX described  
above (1,300,000 chemicals).

Comments : A good source of CAS registry number. CAS  
numbers can then be used to access CAS  
files, Medline and other files which  
include CAS numbers. Other associate  
chemical name files on Dialog are:  
CHEMSIS, CHEMZERO

294. CHEMSEARCH

Vendor : Dialog

Related Databases: Chemname, Chemdex, SANSS, DARC,  
Chemline

Coverage : Includes the most recently added names to  
the CAS registry. A companion file to  
Chemname.

CHEMSIS

See: CHEMNAME

295. CHEMTOX

Vendor : Resources Consultants

Coverage : Material safety data sheets for over 5000  
substances.

Comments : Available for micro-computer only.

**CHEMZERO**

See: CHEMNAME

**296. CHRIS (U.S. Coast Guard)**

Vendor : CIS

Related Data Bases : CESARS, HSBD, OHMTADS,  
HAZARDLINE

Coverage : CHRIS (Chemical Hazard Response Information System) provides a summary of transportation of chemicals; useful for emergency response.

Comments : Also available as a microcomputer version.

**297. CIE (Canadian Centre for Occupational Health and Safety)**

Vendor : (CCOHS)

Coverage : Short summary of information on physical chemical properties, and health and safety of common industrial chemicals

**298. CIOL (Canadian Centre for Occupational Health and Safety)**

Vendor : CCOHS

Coverage : Comprised of TNE (Trade names), CIE (Cheminfo) and RTE (TRECS)

Comments : Available on CD-ROM

**CJACS (American Chemical Society) 1982 -**

See: CJO

**299. CJAOAC**

Vendor : STN

Coverage : Contains research papers in the field of analytical chemistry.

Comments : CJAOAC is a full-text database containing articles published in the Journal of the Association of Official Analytical Chemists.

300. CJO

Vendor : STN

Coverage : All aspects of chemistry.

Comments : The complete text of 18 ACS entry journals since 1982 and Royal Society of Chemistry Journals.

301. CJWILEY

Vendor : STN

Coverage : Contains polymer journals published by J. Wiley

Comments : Full text is included and can be printed offline (except graphics and complicated equations in the text).

302. CRIS/USDA (U.S. Dept. of Agriculture)

Vendor : Dialog (File 60)

Coverage : A directory of research supported by the U.S. Department of Agriculture. Related databases: SSIE, ICAR, IEC.

303. CTCF

Vendor : CIS

Coverage : The on-line version of Gosselin's Chemical Toxicology of Commercial Products it gives the composition of commercially available products and toxicity information on about 1500 substances.

Comments : Can be searched by CAS registry number, tradenames, and use.

304. CUADRA DIRECTORY OF ONLINE DATABASES(Cuadra Elsevier)

Vendor : Orbit

Coverage : Provides information about 3,700 online databases since 1979. Includes a subject index to databases.

305. **DARC**

Related Databases: Chemname, Chemdex, SANSS,  
Chemsearch, Chemline

Coverage : Structure, names and chemical abstract  
registry number for about 5 million  
compounds.

Comments : Similar to the structure search capability  
of SANSS but for a larger number of  
substances. Substructure searches allow  
for obtaining CAS numbers for groups of  
compounds.

**DATALOG**

See: Environmental Fate Data Base

306. **DERMAL**

Vendor : CIS

Coverage : Contains toxic effects, absorption,  
distribution, metabolism and excretion data  
related to the dermal absorption of  
chemicals.

307. **ECDIN**

Vendor : DC Host Centre

Coverage : ECDIN (European Communities Data Bank for  
Environmental Chemicals) contains data on  
over 60,000 compounds. Information  
included are synonyms, structure,  
manufacturing processes, uses, production  
and consumption statistics, occupational  
and environmental health data.

Comments : Some chemicals have only scant information.  
Not presently subscribed to by Hazardous  
Contaminants and Standards Branch. Related  
databases: TSCA, TSCAPP, OHMTADS.

308. **ENVIROFATE**

Vendor : CIS

Coverage : Contains information extracted from papers  
published worldwide dealing with the  
environmental fate or behaviour.

Comments : ENVIROFATE consists of more than 8,400 records pertaining to over 450 chemicals. Each record represents a single test or study on a single chemical. References are included.

#### **ENVIRONMENTAL FATE**

See: ENVIROFATE

#### **309. ENVIRONMENTAL FATE DATA BASE**

Vendor : Syracuse Research Corporation

Coverage : A group of related databases (Datalog, Biolog, Bralog, Chemfate) which give properties, environmental fate and bibliographic information on chemicals.

#### **310. GENETOX**

Vendor : CIS

Coverage : Mutagenicity information on more than 2,600 chemicals as tested against 38 biological systems.

#### **311. HAZARDLINE**

Vendor : Occupational Health Services

Coverage : Outlines chemical and physical properties of industrial chemicals safety precautions, and references U.S. regulatory requirements.

Comments : Associated with a material safety data sheet component. Related databases: HSBD, CESARS, OHMTHADS, CHRIS, CHEMTOX.

#### **HAZARDOUS SUBSTANCES DATA BANK.**

See: HSDB

#### **312. HSDB**

Vendor : ToxNet

Coverage : A review of toxicological data on about 4000 substances of major commercial importance or of extreme toxicity. It includes pharmacological, toxicological, environmental, occupational, manufacturing, and use information, and chemical as well as physical properties.



Comments : Formerly TDB (Toxicology Data Base).  
Related databases: CESARS, OHMTADS,  
Hazardline, CHRIS, CHEMTOX

313. **ICAR** (Canadian Agri-Food Research)

Vendor : CAN/OLE

Related Databases: CRIS/USDA, IEC

Coverage : An inventory of Canadian agricultural  
research.

314. **IEC**

Vendor : CAN/OLE

Coverage : A directory of research in university  
supported by the Government of Canada.

Comments : Directory of federally supported research  
in Universities in the printed equivalent  
for IEC. Related databases: CRIS/USDA  
ICAR

**INFORMATION SYSTEM FOR HAZARDOUS ORGANICS IN WATER**

See: ISHOW

**INVENTORY OF CANADIAN AGRI-FOOD RESEARCH**

See: ICAR

315. **INDUSTRY FILE INDEXING SYSTEM** (NIH/EPA CIS)

Vendor : CIS

Coverage : Regulation of chemicals under EPA's  
industry-specific legislation.

Comments : Designed to answer questions as: "What  
regulations are associated with a  
particular chemical?" "What regulations  
are associated with a particular industry?"  
and "What chemicals are associated with a  
particular regulation?"

316. IPRTC

Vendor : Health and Welfare Canada

Coverage : IPRTC consists of the following groups of files:  
SPECIAL TOXICITY DATABASE  
which includes toxicity studies related to particular effects such as carcinogenicity and mutagenicity.  
CHEMOBIOKINETICS DATABASE  
which includes risk assessment of chemicals to humans and environment.  
ENVIRONMENTAL FATE DATABASE which includes environmental fate information.  
LEGAL DATABASE  
which includes national and international recommendations and legal mechanisms related to chemicals.  
MAMTOX DATABASE  
which includes acute, subchronic and chronic toxicity studies in mammals.  
IDENTIFIERS, PRODUCTION, PROCESSES AND WASTE DATABASES  
which include identifiers, production and trade statistics, production processes, use, loss, persistence, residues studies, concentrations in the environment, human intake, sampling, preparations, analysis and waste management information on chemicals.

Comments : Will be available June 1, 1988. Relevant data is extracted from the source material.

317. ISHOW

Vendor : CIS

Coverage : Contains data on melting points, partition co-efficient, acid dissociation constant, water solubility and vapor pressure for chemical substances.

Log P

See: CHEMEST

318. MATERIAL SAFETY DATA SHEET (OHS)

Coverage : Provides data on symptoms of exposure and safety precautions for hazardous chemicals.

Comments : MSDS is a shortened form of HAZARDLINE.  
Related databases: CHEMTOX, NPIRS, ChemInfo, Hazardline, Trade Names.

319. **MSDS ENGINE SOFTWARE** (Genuim Publishing Corp.)

Vendor : Genuim Publishing Corp.  
Coverage : Material Safety Data Sheets  
Comments : Available for micro-computer only.

320. **NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND  
HEALTH TECHNICAL INFORMATION CENTER (NOISH)**

Vendor : Orbit  
Coverage : Contains abstracts covering all aspects of  
occupational safety and health from NOISH  
Technical Information Center.  
Comments : Delivery of full-text source document is  
available through ORBDOC Online Ordering  
Service from Information on demand (ORDER  
IOD)

**NATIONAL PESTICIDES INFORMATION RETRIEVAL SYSTEM**

See: NPIRS

321. **NPIRS**

Vendor : Purdue University  
Coverage : Provides up-to-date information about  
pesticides registered by the U.S.  
government and some states. Includes  
pesticides factsheets and a Material Safety  
Data Sheet component for both agricultural  
and industrial chemicals.  
Comments : Related databases: PRIS

322. **OHM/TADS**

Vendor : CIS  
Coverage : OHMTADS (Oil and Hazardous Materials  
Technical Assistance Data System) has been  
developed to assist in the handling of  
spills. Including physical, chemical,  
biological, toxicological and commercial  
data with an emphasis on effects in water  
quality. (about 1200 substances).  
Comments : Available on microcomputer version.  
Related databases: CESARS, CHRIS, HSDB,  
Hazardline

**OIL AND HAZARDOUS MATERIAL/  
TECHNICAL ASSISTANCE DATA SYSTEM**

See: OHM/TADS

**323. PESTICIDE DATABANK (British Corp. Protection Council)**

Vendor : Orbit

Coverage : Provides up-to-date information on a wide-range of chemical and biological agents used to control undesirable living organisms in the fields of agriculture, horticulture, animal health, domestic pest control.

**PESTICIDE RESEARCH INFORMATION SYSTEM**

See: PRIS

**324. PRIS (Agriculture Canada)**

Coverage : The Pesticides Research Information System is prepared by Agriculture Canada. It provides information on pesticides and biocontrol agents from the time they are introduced in Canada for research purposes to the time they are registered for specific uses.

Comments : Related Databases: PRIS

**325. QSAR**

Vendor : Montana State University

Coverage : A structure activity relationship provides information on properties and fate of organic chemical compounds.

For parameters, structure activity relationship models can be used to estimate values. Includes the Aquire database.

Comments : Related databases: chemline, chemname, SANSS, chemdex.

326. **RIPP** (Pesticide Directorate of Agriculture Canada)

Vendor : Canadian Centre for Occupational Health and Safety (CCOHS)

Coverage : RIPP identifies and describes products registered in Canada under the Pest Control Products Act. Regulatory information is available on agricultural and forestry pesticides, wood preservatives, pesticides usage, and industrial slimicides.

Comments : RIPP is available in English and French on CCINFOline, or on CD-ROM.

**QUANTITATIVE STRUCTURAL-ACTIVITY RELATIONSHIPS**

See: QSAR

327. **REGISTRY** (Chemical Abstracts Services)

Vendor : STN

Coverage : Contains 8 million records providing CAS no., CA index names, synonyms, structural diagram, molecular formula.

Comments : Related databases, chemalex, chemline, chemmane, SANSS

**REGULATORY INFORMATION ON PESTICIDE PRODUCTS**

See: RIPP

328. **RTECS**

Vendors : CIS, Medlars, CCINFO

Coverage : RTECS (Registry of Toxic Effects of Chemical Substances) contains toxicity data on over 50,000 potentially toxic chemicals. All data is referenced to source.

Comments : Available in printed copy, microfiche or CD-ROM.

329. SANSS

Vendor : CIS

Coverage : The Structure and Nomenclature Search System allows searches by chemical structure or substructure, chemical name, trade name, molecular formula, molecular weight, and chemical fragments.

The chemical abstract number, chemical name and synonyms, molecular formula, chemical structure, and list of other sources of information is available for most substances. (300,000 chemicals).

Comments : A good source of chemical abstracts number, although not as extensive as Chemname or Chemdex. It serves as a useful access point to other databases on CIS. A bit more difficult to access than the two above files. Related databases: Chemname, Chemdex, Chemsearch, DARC, Chemline

**SCIENTIFIC PARAMETERS FOR HEALTH  
AND THE ENVIRONMENT. RETRIEVAL  
AND ESTIMATION**

See: SPHERE

330. SPHERE

Vendor : CIS

Coverage : SPHERE is made up of the following components: AQUIRE, PHYTOTOX, GENETOX, ENVIROFATE, DERMA, ISHOW

331. STANDARD PESTICIDE FILE (Derwent Publications Ltd.)

Vendor : Orbit

Coverage : Contains a listing of approximately 3900 known pesticides. Includes full name, standard registry name, standard registry name, chemical substructure terms, chemical ring codes.

Comments : It is a companion file to PESTDOC.

STRUCTURE AND NOMENCLATURE SEARCH SYSTEM

See: SANSS

TDB

See: HSDB

332. TDG

Vendor : Canadian Centre for Occupational Health and Safety (CCOHS)

Coverage : Covers ready-to-use information on shipping requirements for chemical substances under the Canadian Transportation of Dangerous Goods Regulations.

333. TNE (CCOHS)

Vendor : Canadian Centre for Occupational Health and Safety

Coverage : Information on chemical trade name products, as contained on manufacturer material safety data sheets (MSDS).

Comments : Includes information such as composition, physical and chemical properties, general toxicity, handling and storage. Records are in English and/or French as supplied by contributors. Available on CD-ROM.

TOXIC SUBSTANCE CONTROL ACT INITIAL INVENTORY

See: TSCA

TOXIC SUBSTANCES CONTROL ACT PLANT AND PRODUCTION DATA

See: TSCAPP

TRADE NAMES

See: TNE

## TRANSPORTATION OF DANGEROUS GOODS

See: TDG

### 334. TSCA

Vendors : Orbit, Dialog (File 52)

Coverage : The on-line version of the Toxic Substances Control Act inventory, includes CAS numbers, molecular formulae, chemical names, manufacturers and non-confidential production data.

Comments : The TSCA file on Dialog does not contain the manufacturers nor the supplement to the inventory. Related databases: TSCAPP, ECDIN

### 335. TSCAPP

Vendor : CIS

Coverage : The TSCA Plant and Product contains non-confidential information reported to the U.S. Environmental Protection Agency on production volume, company name and address and plant site. (50,000+ substances).

Comments : Does not include pesticides or dumps. Only large volume production as defined by TSCA is included. Related databases: TSCA, ECDIN



**VII. OTHER SOURCES:**  
**GOVERNMENT, CORPORATE AND LIBRARY CONTACTS**

**CISTI**

(Canada Institute for Scientific and Technical  
Information)  
National Research Council  
Ottawa, Ontario  
K1A 0S2  
(613) 993-2013 reference  
(613) 993-1585 inter-library loans

- Has a mandate to assist in fulfilling the information needs of the Canadian scientific and technical community.
- Serves as a last resort when the search for information has been unsuccessful elsewhere.
- Some of their services are available on a fee basis.

**Canadian Centre for Occupational Health and Safety**

250 Main Street East  
Hamilton, Ontario  
L8N 1H6  
(416) 572-2981  
1-800-263-8276

- Will reply to requests for information on matters of the health and safety of chemicals, especially in the work place (if this entails a literature review, there is often a delay of several weeks to obtain replies).

**Canadian Public Health Association (C.P.H.A.)**

1335 Carling Avenue No. 210  
Ottawa, Ontario  
K12 8N8  
(613) 725-3769

- Is the distributor for World Health Organization (WHO) publications including those of the International Agency for Research on Cancer (IARC)

**Chemical Manufacturers Association**

2501 M Street N.W.  
Washington, D.C., 20037

- Chemecology, a free newsletter, presents the industry's views on environmental aspects of chemicals. It will sometimes reference reports that are available.
- CHEMTREC and CHEMNET provides information in emergencies on spill handling. In Canada this service is available through CANUTEC (See Canadian Chemical Producers Association)
- The National Chemical Response and Information Centre provides non-emergency information on chemicals to the public.

**The Conservation Foundation**

1717 Massachusetts Avenue N.W.  
Washington, D.C.  
20036

- Is one of the largest public interest groups in the U.S.
- Regularly publish books.

**Consumer and Corporate Affairs Canada**

Toronto District Office  
Product Safety  
200 Town Centre Court, #815  
Scarborough, Ontario  
M1P 4X8  
(416) 973-4705

- Will assist in answering requests on the health effects of certain chemicals in consumer products.

**Great Britain Department of Employment**

Health and Safety Executive  
Taxton House  
Tothill Street SW1  
London, England

- Has produced a set of toxicity reviews on chemical hazards.

**Global Environmental Research Group**

Daniel B. Botkin  
University of California  
Santa Barbara, California  
(805) 961-3045

- Is an international research center focusing on the application of high technology to planet-wide problems.

**Health Designs Incorporated**

183 Main Street West  
Rochester, N.Y., 14604  
U.S.A.  
(716) 546-1464

- From a chemical structure will use different QSAR models to predict toxicity of a substance at a fee.

**Health and Welfare Canada**

Health Protection Branch  
2301 Midland Avenue  
Scarborough, Ontario, M1P 4R7  
(416) 973-1600

- The Drugs Division and Environmental Health Inspection will answer queries on allowable limits of substances in food as set by regulation or working guidelines.

**IRPTC**

(The International Register of Potentially Toxic Chemicals)  
Ruta Whittaker  
National Correspondent  
Environmental Health Centre  
Tunney's Pasture  
Ottawa, Ontario, K1A 0L2  
(613) 957-3128

- Is an international effort under the United Nations Environment Programme (UNEP) to collect and compile an information database on chemicals.
- Response time to requests is slow.
- Is one of the best sources for non-American information.
- Provides the IRPTC databases available in Canada through Health and Welfare Canada.

**Metropolitan Toronto Library**

789 Yonge Street  
Toronto, Ontario  
(416) 393-7000

- Provides a good reference service for questions needing short answers available from handbooks or directories.
- Some of the departments and topics covered are noted below:

General Reference (393-7131): for general directory information, questions of a general nature.

Bibliographic Centre (393-7188): for information on a particular book, report, or publisher.

Poison Control Centre: this Centre can be reached by a toll-free number: 1-800-268-9017. It is a telephone hotline providing information on poison control.

Science and Technology (393-7090): for directory information and other information in the scientific field.

Business (393-7148): for information on manufacturers and some statistics.

Social Sciences (393-7181): for government and other large institutions directory information.

National Academy of Sciences  
2101 Constitution Avenue N.W.  
Washington, D.C., 20418

- Many of the studies of the NAS are available through the National Academy Press.
- The News Report highlights the activities undertaken by the Academy and will announce reports that are available.

**National Coalition Against The Misuse of Pesticides (NCAMP)**

530 7th St. S.E.  
Washington, D.C. 20003  
U.S.A.  
(202) 543-5450

- This non-profit organization, located in Washington, D.C., maintains an extensive file of toxicology literature on pesticides. NCAMP staff members regularly scan scientific journals and monitor government action on a wide variety of pesticides. They can provide a summary of published data, and also tell you which pesticides lack the full range of health hazard tests.

**National Research Council of Canada**

Associate Committee on Scientific Criteria for  
Environmental Quality  
Ottawa, Ontario, K1A 0R6  
(613) 990-0859

- This group has published review documents on topics of environmental interest (yellow and blue covers).
- For information on publications, telephone (613) 993-2054.

**Ontario Ministry of Agriculture**

801 Bay Street  
Toronto, Ontario  
(416) 965-1421

**Ontario Ministry of Labour, Library**

400 University Avenue, 10th floor  
Toronto, Ontario, M7A 1T7  
(416) 965-1641

- Produces a monthly acquisition list. The Library Bulletin, part A Occupational Health and Safety is a good way of becoming aware of new resources.

**Ontario Ministry of the Environment**

(a) Air Resources Branch  
880 Bay Street, Fourth Floor  
Toronto, Ontario  
(416) 965-6343

- Provides information on different aspects of Air.
- Provides free Air Resources Branch publications.
- Has a specialized collection.

(b) Hazardous Contaminants Coordination Branch  
40 St. Clair Avenue West, 7th Floor  
Toronto, Ontario  
(416) 323-5100

- Has a specialized collection emphasizing the effects of toxic chemicals on humans and the environment.
- Staff members are available to answer specific questions in this area.

(c) Main Library  
135 St. Clair Avenue West  
Toronto, Ontario  
(416) 323-4350

- (d) Lab Library  
125 Resources Road  
Rexdale, Ontario, M9W 5L1  
(416) 235-5751
- The Main and lab library have collection of materials covering all aspects of environmental matters including large numbers of journals which can be borrowed by Ministry staff. The Lab Library will perform literature searches on topics of interest using their on-line access to computerized databases.
- (e) Waste Management Branch  
40 St. Clair Avenue West, 5th Floor  
Toronto, Ontario  
(416) 323-5200
- (f) Water Resources Branch  
1 St. Clair Avenue West  
Toronto, Ontario  
(416) 323-4941

**PACE**

(Petroleum Association for the Conservation of the Canadian Environment)  
130 Albert Street, No. 40  
Ottawa, Ontario, K1P 5G4  
(613) 236-9122

- Has a technical report series.

**U.S. Dept. of Health and Human Services**

- (a) National Institute for Occupational Safety and Health
  - publishes "Criteria for a recommended standard" series as well as other items of interest on the health aspects of chemicals. Contact: NIOSH, U.S. Dept. of Health and Human Services, 3676 Columbia Parkway, Cincinnati, Ohio 45226.
- (b) National Toxicology Program
  - An important series of reports on carcinogenesis bioassays is available through them. Contact: National Toxicology Program  
Public Information Office  
P.O. Box 12333  
Research Triangle Park, North Carolina 27709  
(919)541-3991

(c) Poison Information Clearinghouse

- Literature searches and expert referral services are available to the public, as are brochures, flyers, pamphlets, posters, films, slide talks and media aids on the subject of poison control. Poisoning case reports are collected by a product's category and trade name, and a directory of local poison controls centers is available. Contact: National Clearinghouse for Poison Control Center, Bureau of Drugs, Food and Drug Administration, Department of Health and Human Services, 5600 Fishers Lane, Room 13-45, Rockville, MD 20857/301-443-6269.

**U.S. Dept. of Labour**  
OSHA Regulatory Analysis

- Information and analysis are available on issues surrounding major standards such as those for cotton, dust, benzene and carcinogens. Contact: Office of Regulatory Analysis, Directorate of Technical Support, Occupational Safety and Health Administration, Department of Labour, 200 Constitution Ave. N.W., Room N3657, Washington, D.C., 20210/202-523-7056

**U.S. Dept. of Interior**  
Pesticide Surveillance

- Over 100 sampling stations monitor the effects of pesticides on various species of wildlife. For information, contact: Division of Fishery Ecology Research, Fish and Wildlife Service, Department of the Interior, 1717 H St. N.W., Room 511, Washington, D.C. 20240/202-343-5715.

**U.S. Dept. of Transportation**  
Transportation of Hazardous Materials

- Two newsletters are available: 1) Hazardous Material Regulations; and 2) Pipeline Safety Regulations. Information is also available on packaging, labeling and marketing of hazardous and radioactive materials. Contact: Information Services Division, Office of Operations and Enforcement, Research and Special Programs Administration, Department of Transportation, 400 7th St. S.W. Room 8430, Washington, D.C. 20590/202-426-2301.

**U.S. Environmental Protection Agency (EPA)**

**(a) Air Quality Planning and Standards**

- This office provides guidelines and technical assistance for air quality planning, monitors air pollution trends, sets standards for new-source emissions and hazardous pollutants. Contact: Air Quality Planning and Standards, Office of Air, Noise and Radiation, Environmental Protection Agency, Research Triangle Park, NC 27711/919-541-5315.

**(b) Chemical Control**

- This office plans, operates and evaluates the Agency's work in controlling toxic substances other than pesticides. Contact: Chemical Control Division, Office of Toxic Substances, Environmental Protection Agency, Room 509, 401 M. St. S.W., Washington, D.D. 20460/202-462-9000.

**(c) Drinking Water Information**

- The Environmental Protection Agency maintains an information program on drinking water. It also develops plans to handle water emergencies. Contact: Technical Support Division, Water and Waste Management, Environmental Protection Agency, 555 Ridge Avenue, Cincinnati, OH 45268/513-684-7601.

**(d) Drinking Water Program**

- This office develops standards, rules and guidelines for maintaining the quality of public drinking water supplies. For further information, contact: Office of Water and Waste Management, Environmental Protection Agency, Room 1101, 401 M St. S.W., Washington, DC 20460/202-426-8347.

**(e) Effluent Guidelines**

- The Environmental Protection Agency defines limiting levels of pollutants in the waste streams of industrial and municipal point sources. Contact: Effluent Guidelines Division, Water and Waste Management, Environmental Protection Agency, Room E913, 401 M St. S.W., Washington, DC 20460/202-426-2576.



(f) Mobile Source Air Pollution

- For information on mobile source air pollution contact: Mobile Source Enforcement Division, Office of Enforcement, Environmental Protection Agency, Room 3220 WSM, 401 M St. S.W., Washington, D.C. 20460/202-382-2546.

(g) Pesticide Programs

- This office plans and carries out programs to limit the use of pesticides that are harmful to people or to the environment. Contact: Office of Pesticide Programs, Environmental Protection Agency, Room E539, 401 M St. S.W., Washington D.C. 20460/202-557-7460.

(h) Pesticide Storage and Disposal

- The EPA provides information about proper pesticides storage and disposal; it certifies the safety of all pesticides used in the United States and has information about proper home pesticide use. The EPA also answers questions about chemicals and their dangers. For any of the above information contact: Public Information Center, PM-211A, Environmental Protection Agency, Washington, D.C. 20460/202-755-0707.

(i) Research and Development

- Provides "Office of Research and Development Program Guide", a free annual publication on general and technical information on research on pollution sources, health effects, prevention and control methods, environmental sciences and monitoring systems. Contact: Technical Information Office, Office of Research and Development, Environmental Protection Agency, Room 923, 401 M St. S.W., Washington D.C. 20460/202-755-0468.

(j) TSCA Assistance Office

- is a clearing house of information on the Toxic Substances Control Act and activities surrounding it. Periodically releases "Health Advisories", "Chemical Advisories", and Chemical Hazard Information Profiles (CHIPs). Contact: TSCA Assistance Office, 401 M Street S.W., Washington, D.C. 20460/202-382-3790



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## APPENDIX I: NEW SOURCES

### Books

1. Chemical Information File. United States Department of Labour.  
Presents data in concise form on a large number of chemical substances. It is intended as a basic reference for industrial hygienists engaged in OSHA field activity.
2. Contaminant Hazard Reviews. United States Department of Interior, Fish and Wildlife Service.  
United States Fish and Wildlife Service has published a number of reports under "Hazard Reviews" Series. Each individual report is devoted to a hazardous substance and its hazardous effects to Fish, Wildlife and invertebrates.
3. European Inventory of Existing Commercial Chemical Substances. Commission of the European Communities, 1987.
4. Handbook of Laboratory Waste Disposal, by M.J. Pitt and E. Pitt. American Conference of Governmental Industrial Hygienists, 1985.  
This book deals with legislation and current trends in Hazardous Waste disposal both in Europe and the United States.
5. Hazardous Waste Law and Practice, by J.M. Stensvaag. ACGIH, 1986.  
This book describes the elements of the statutory and regulatory definitions of hazardous waste.
6. Hazards in the chemical laboratory, 4th edition, by G.D. Muir. 1986.
7. Health Advisories for 50 pesticides. United States Environmental Protection Agency, Office of Drinking Water, 1987.  
This book summarizes human and animal health effects quantifications of toxicological effects, general information and properties of 50 pesticides.
8. In vitro and In vivo Mutagenicity Studies of Environmental Chemicals, by D.C.L. Jones *et al.* NTIS, 1984. (QH 465.C5 I35, 1984)  
Provides data from the evaluation of 41 pesticides and 10 industrial chemicals.

9. Regulating, Recommendations and Assessments Extracted from RTECS. NIOSH, 1987?

This book is a subfile of data extracted from the 1985 issue of the RTECS. Contains selected data on 4,824 chemicals listed in the NIOSH Registry, including standards, workplace exposure limits, carcinogenicity assessments.

10. Toxic Air Pollutant Guidelines: Review of Recent Progress and Problems, edited by P.J. Lioy and M. Lippmann. ACGIH, 1988.

This publication assesses the present scope of community air guidelines and examines the types of toxicological data and modeling needed to reduce potential uncertainty in future technical information.

11. WHMIS Handbook Corpus Information Services, Toronto, 1988.

Is a resource manual and action guide to Workplace Hazardous Materials Information System.

Databases

1. CAMEO (U.S. National Safety Council)

Coverage : Is a computer program designed to aid in the effective response to chemical accidents. The Program contains response information for 2,629 regularly transported chemicals; a detailed system for mapping; and an air dispersion model to evaluate release scenarios and evacuation options.

Comments: This software is a new version of one developed by the National Oceanic and Atmospheric Administration.

2. CHEMLIST (American Petroleum Institute)

Vendor: STN

Coverage: Records in this file identify materials listed on the TSCA Inventory. It also contains citations to regulatory activity such as premanufacture notices, EPA proposed and final rules, reports on health/safety studies and actions under SARA Title 3.

Comments: This database was originally built from data in the 1985 TSCA Inventory, Federal Register for 1978 - 1987 and TSCATS database. The major source for updates comprises daily issues of the Federal Register.

### 3. CURRENT CONTENTS SEARCH

Vendor: Dialog (File 440)

Coverage: Current contents research provides access to the tables of contents of the leading journals in the science, social sciences and art and humanities. Current Contents Search consists of seven subsets: clinical medicine, life sciences, engineering, technical and applied sciences; agriculture, biology and environmental sciences, physical chemical and earth sciences, social and behavioural sciences; and arts and humanities. Also a complete bibliographic record for each item provided.

Comments: Current Contents Search is the online version of ISI's Current Contents series of publications.

### 4. DIPPR (American Institute of Chemical Engineers)

Vendor: STN

Coverage: Contains textual information and numeric pure component physical property data for commercially important chemical substances.

Comments: Updated annually

### 5. TOXLIST

Vendor: STN

Coverage: Contains information concerning chemical substances listed in the EPA TSCA Inventory, or subject to EPA regulations under TSCA.

Comments: TOXLIST can be searched by transferring CAS Registry numbers from CAS ONLINE.







